

CASSETTE RECEIVER

KRC-658R

SERVICE MANUAL

KENWOOD

© 1996-11 PRINTED IN JAPAN

B51-7069-00 (N) 2278

Panel ass'y
(A64-0888-02)

Knob (TUNE)
(K25-0792-03)

Knob (FM, AM)
(K25-0790-03)



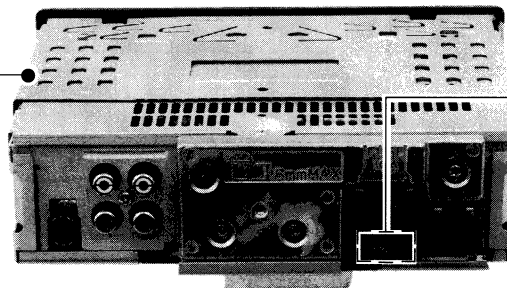
Knob (AUD)
(K25-0786-03)

Knob (1, 2, 3)
(K25-0788-03)

Knob (4, 5, 6)
(K25-0789-03)

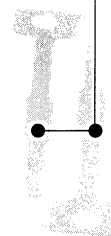
Knob (AUTO)
(K25-0791-03)

Mounting hardware
(J21-7630-13)

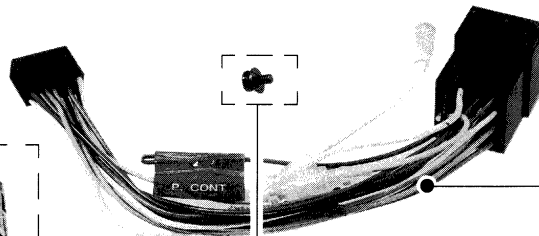


Fuse (Mini blade type)
(F52-0006-05)

Lever
(D10-3031-04)



DC cord
(E30-4424-05)



Sems (Machine screw)
(N09-1885-05)

Plastic cabinet
(A02-1444-03)

Antenna adaptor
(T90-0512-05)

Mechanism extension cord for service
7P : W05-0477-00
10P : W05-0609-00

DC cord for service : E30-4335-05

CASSETTE RECEIVER

KRC-658R

SERVICE MANUAL

KENWOOD

© 1996-11 PRINTED IN JAPAN
B51-7069-00 (N) 2278

Panel ass'y
(A64-0888-02)

Knob (TUNE)
(K25-0792-03)

Knob (FM, AM)
(K25-0790-03)



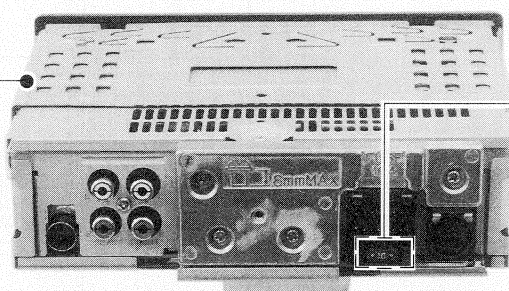
Knob (AUD)
(K25-0786-03)

Knob (1, 2, 3)
(K25-0788-03)

Knob (4, 5, 6)
(K25-0789-03)

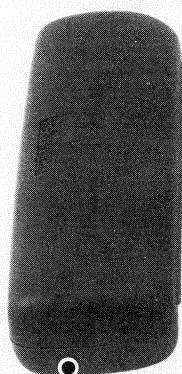
Knob (AUTO)
(K25-0791-03)

Mounting hardware
(J21-7630-13)



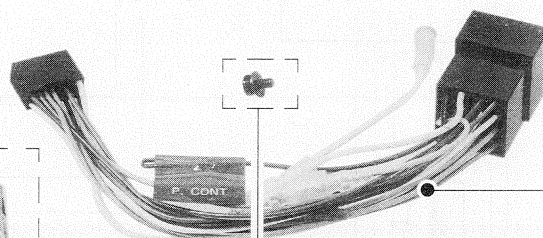
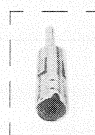
Fuse (Mini blade type)
(F52-0006-05)

Lever
(D10-3031-04)



Plastic cabinet
(A02-1444-03)

Antenna adaptor
(T90-0512-05)



DC cord
(E30-4424-05)

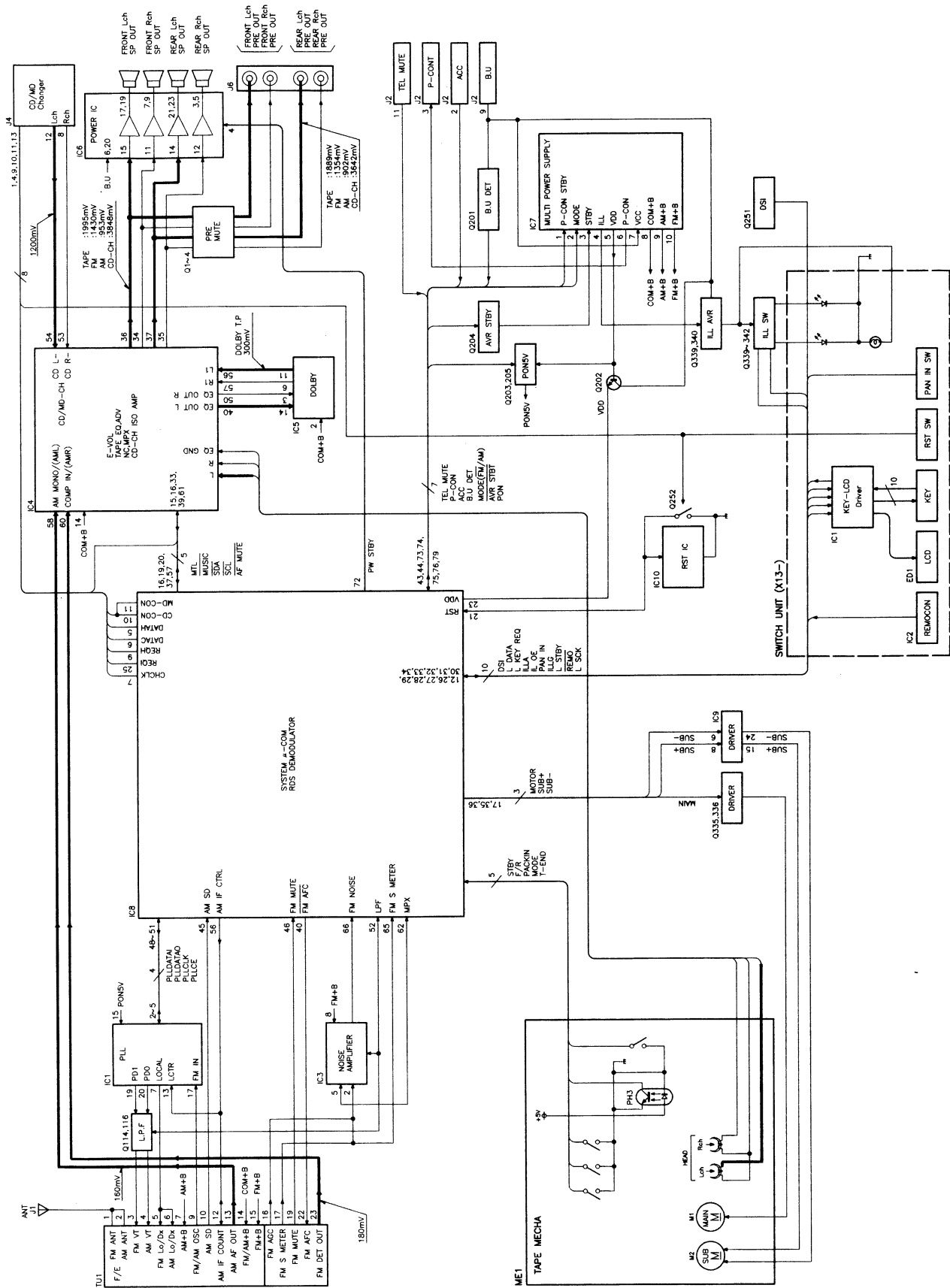
Sems (Machine screw)
(N09-1885-05)

Mechanism extension cord for service
7P : W05-0477-00
10P : W05-0609-00

DC cord for service : E30-4335-05

KRC-658R

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Microprocessor : ST7285A5Q6ACLK (IC8, X14-)**Terminal description**

No.	Pin name	I/O	Function	Port logic	Power OFF
1	GNDP	–	Output buffer GND.		
2	VDDP	–	Output buffer power supply.		
3	OSCOUT	O	Oscillator output.		
4	OSCIN	I	Oscillator input.		
5	DATAH	O	5-line communication – data, head unit.		L
6	DATAC	I	5-line communication – data, disc-CH.		
7	CHCLK	I	5-line communication – clock, head unit.	Active “L”	
8	GND	I	GND.		
9	REQH	O	5-line communication – request, head unit.	Active “L”	H
10	CHCON1	O	Disc-CH 1.	Active “H”	L
11	CHCON2	O			L
12	REMO	I	Remote control input.		
13	PACKIN	I	Tape pack IN.		
14	–	O	Not used.		L
15	T-STBY	I	Tape – standby.		
16	MUSIC	I	Tape – music.		
17	MOTOR	O	Tape – main motor.	Active “H”	L
18	DOLBY	O	Tape – Dolby.	Active “H”	L
19	SCL	O	12C bus – clock.		OPEN
20	SDA	I/O	12C bus – data.		OPEN
21	RESET	I	Hardware reset.	Active “L”	
22	VPP	I	μ-COM test mode (fixed at “L” in normal operation).		
23	VDD	I	Full logic circuit power.		
24	GND	I	Full logic circuit GND.		
25	REQC	I	5-line communication – request, disc-CH.	Active “L”	
26	ILLA	O	Illumination – amber.	Active “H”	L
27	ILLG	O	Illumination – green.	Active “H”	L
28	DSI	O	DSI.	Active “H”	
29	L OE	O	LCD driver – all segment enable.	Active “H”	L/H
30	L STB	O	LCD driver – strobe.		L
31	L SCK	O	LCD driver – clock.		L
32	L DATA	I/O	LCD driver – data.		L/H
33	L KEYREQ	I	LCD driver – key request.		
34	PANIN	I	Panel inserted.	Active “L”	
35	SUB+	O	Tape – sub-motor (+).		L
36	SUB–	O	Tape – sub-motor (–).		L
37	MTL	O	Tape – metal.	Active “H”	L
38	(KICK)	O	Not used.		L
39	NC	O	Not used.		L
40	AFC	O	Tuner – FM AFC.	Active “L”	L

KRC-658R

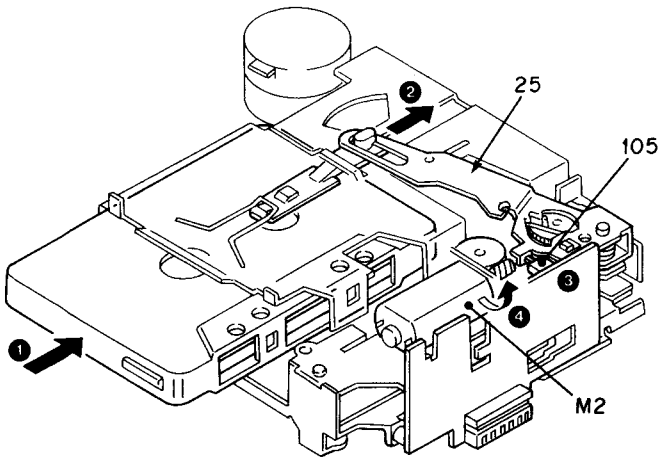
CIRCUIT DESCRIPTION

No.	Pin name	I/O	Function	Port logic	Power OFF
41	GNDP	I	Output buffer GND.		
42	VDDP	I	Output buffer power.		
43	ACC	I	ACC.	1.27V (TH)	
44	BUP	I	Open (because of built-in pull-up resistor).	3.0V (TH)	
45	AMSD	I	Tuner – AM SD.	Active “H”	
46	FMMUTE	I	Tuner – FM band muting.	Active “L”	
47	TAPE-F/R	I	TAPE HEAD FORWARD / REVERSE.	F : H / R : L	
48	P DI	I	PLL IC – data input.		
49	P DO	O	PLL IC – data output.		L
50	P CL	O	PLL IC – clock.		L
51	P CE	O	PLL IC – chip enable.		L
52	LPF	O	Tuner – FM LPF.	Active “L”	L
53	PNSW1	I	H : KRC-658, L : KRC-558.		
54	PNSW2	I			
55	(PANT)	O	Not used.		L
56	IF CTRL	O	Tuner – AM IF control.	Active “L”	L
57	AFMUTE	O	Tuner – FM AF high-speed muting.	Active “L”	L
58	MUTE	O	Muting.	Active “L”	L
59	RDSCOMP	O	RDS COMP output.		
60	RDSFIL	O	RDS filter output.		
61	RDSFIL	I	RDS reference input.		
62	MPX	I	RDS input signal.		
63	VDDA	I	Analog power.		
64	GNDA	I	Analog GND.		
65	SMETER	I	Tuner – FM S meter.		
66	NOISE	I	Tuner – FM noise		
67	T-MODE	I	Tape – mode.		
68	T-END	I	Tape – end.		
69	–	I			L
70	–	I			L
71	BUP	I	Back-up.	Active “L”	
72	PW STBY	O	Power IC standby.	Active “H”	L
73	FM/AM	O	Tuner – FM/AM selection.	FM : “L”	L
74	AVR STBY	O	AVR standby.	Active “H”	L
75	PON	O	Power ON 5V.	Active “H”	L
76	PCON	O	Power control.	Active “H”	L
77	TEST	O	Test mode ON.	Active “H”	L
78	–	O			L
79	PHONE	I	Phone interface.	Active “H”	
80	BEEP	O	Beep.		L

MECHANISM OPERATION DESCRIPTION

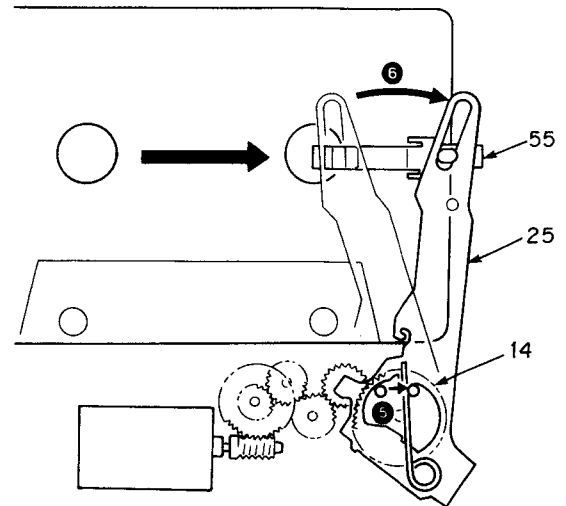
1. Loading

When the cassette tape is pushed in ①, the loading arm (25) moves via the pack slider (55) ②. Thus, the pack-in switch (105) detects this ③, and the sub motor (M2) makes normal rotation ④.



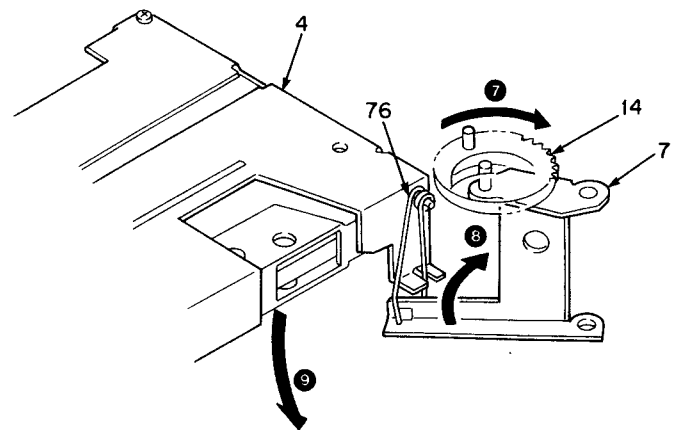
The rotation of the sub motor (M2) cause the load gear (14) to rotate by way of the idle gear ⑤.

The load gear (14) provides the rotation of the loading arm (25) by this pin ⑥, to load in the cassette tape.



2. Pack down

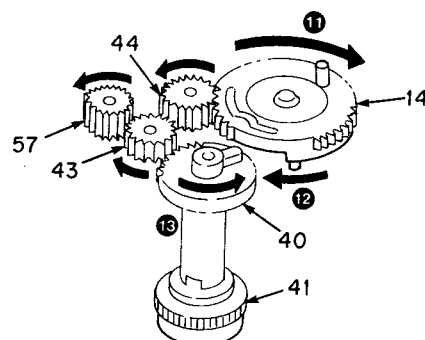
When the load gear (14) further rotates ⑦, the action arm (7) also rotates ⑧ to lower the action plate (4) ⑨, by way of the action plate spring (76).



3. Change from Load Gear to Mode Gear

When the load gear (14) further more rotates ⑪, the boss under it pushes against the boss of the mode gear (40) ⑫, so that the mode gear (40) rotates after the shift of its non-toothed section ⑬.

Thus, the load gear (14) stops rotation on account of its non-toothed section coming.



KRC-658R

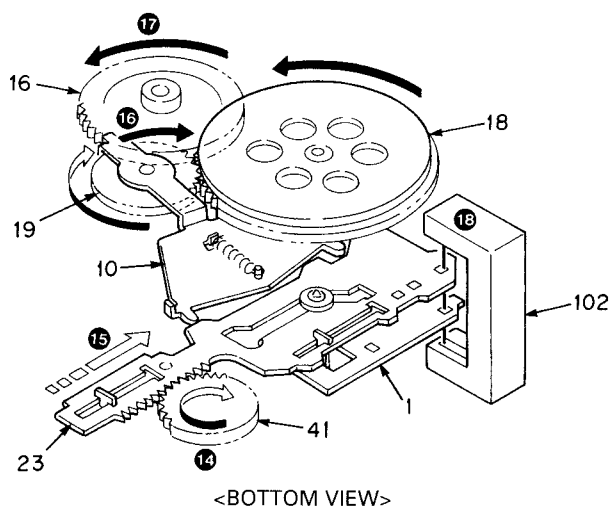
MECHANISM OPERATION DESCRIPTION

4. REW

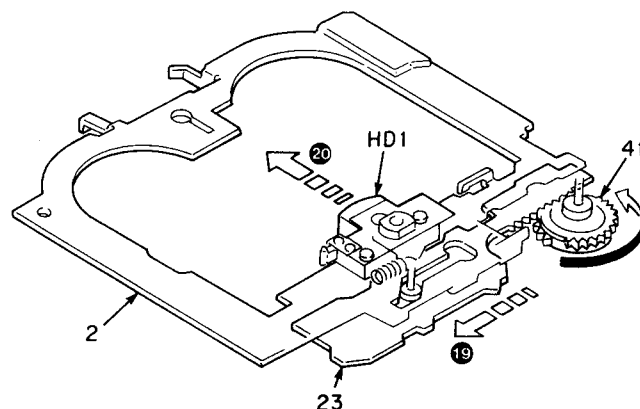
When the mode gear (41) rotates ⑭, the FR plate (23) under it moves ⑮. The cam of the FR plate (23) works to rotate the FR arm (10) ⑯.

Further, the FR arm (10) moves to transmit the rotation of the flywheel (18) to the reel gear (16) ⑰.

At this time, a slot (REW hole) of the FR plate (23) is detected by the mode sensor (102) ⑱, to stop the rotation of the sub motor.



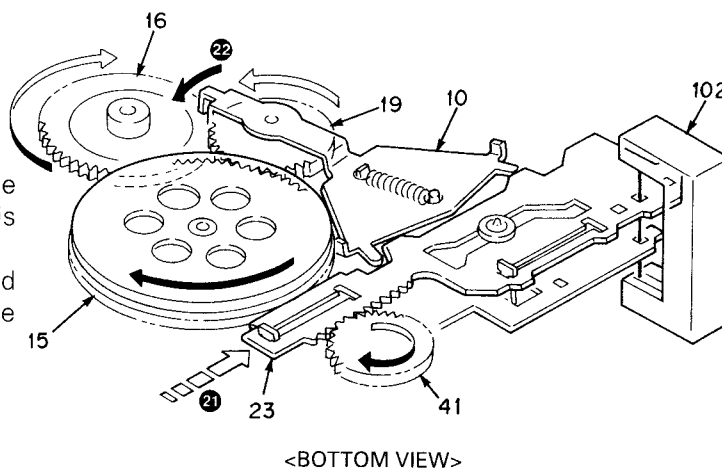
For REW or FF, due to the groove of the FR plate (23) ⑲, the head plate (2) advances ⑳ so that the head moves to a position at which T-ADV is feasible.



5. FF

When the sub motor further rotates, the cam of the FR plate (23) moves ㉑ so that the FR arm (10) is rotated in the reverse direction ㉒.

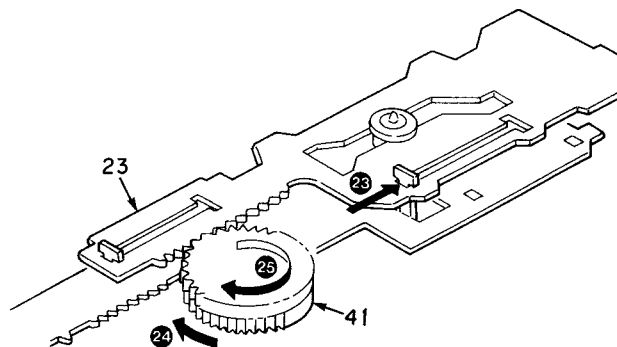
Thus, a slot (FF hole) of the FR plate (23) is detected by the mode sensor (102) to stop the rotation of the sub motor.



6. Change from FR Plate to PRO Plate

When the sub motor further more rotates, the hole of the FR plate (23) hits against the knob of the PRO plate (22) ㉓, so that the PRO plate (22) moves.

Thus, the rack of the PRO plate (22) enters into engagement with the mode gear ㉔. Then, the rack of the FR plate (23) is disengaged from the mode gear because of its non-toothed section coming ㉕.

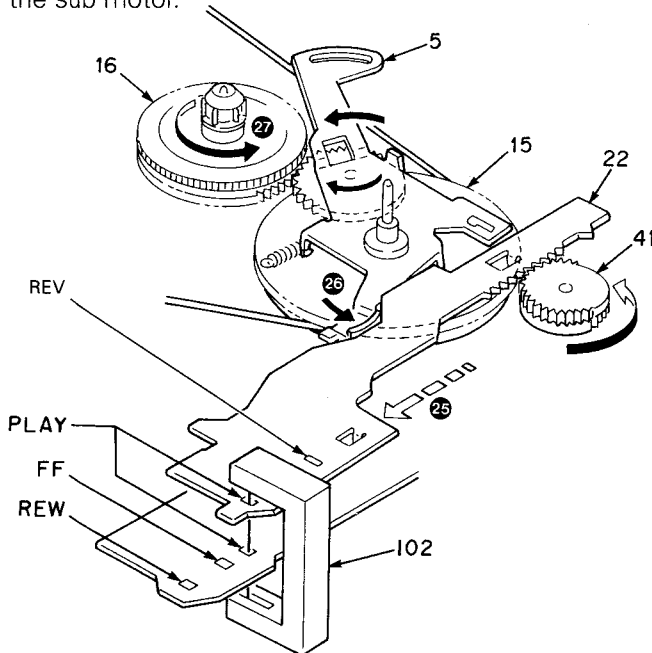


MECHANISM OPERATION DESCRIPTION

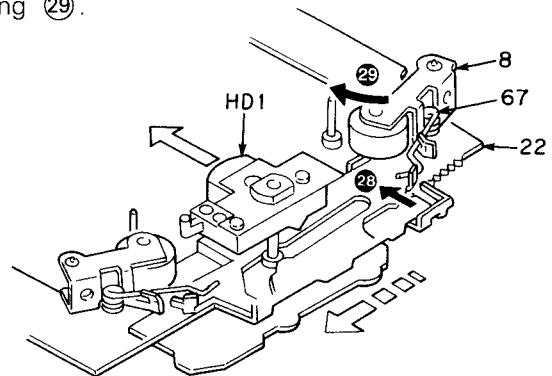
7. FWD PLAY

When the PRO plate (22) moves ②⑤, the take-up plate F is rotated by the cam of the PRO plate (22) and the take-up gear (45) engages with the reel ass'y (16) ②⑥. The rotation of the flywheel (15) is transmitted to the reel ass'y (16) by way of the take-up gear (45) ②⑦.

Thus, a slot (PLAY hole) of the PRO plate (22) is detected by the mode sensor (102) to stop the rotation of the sub motor.



The groove of PRO plate (22) serves to advance the head plate (2) ②⑧, to move the head and the pinch roller (8) to their FWD PLAY position. The pinch roller (8) is contacted to the capstan (15) by pressure due to the shift to the take-up plate and the force of the pinch roller spring ②⑨.

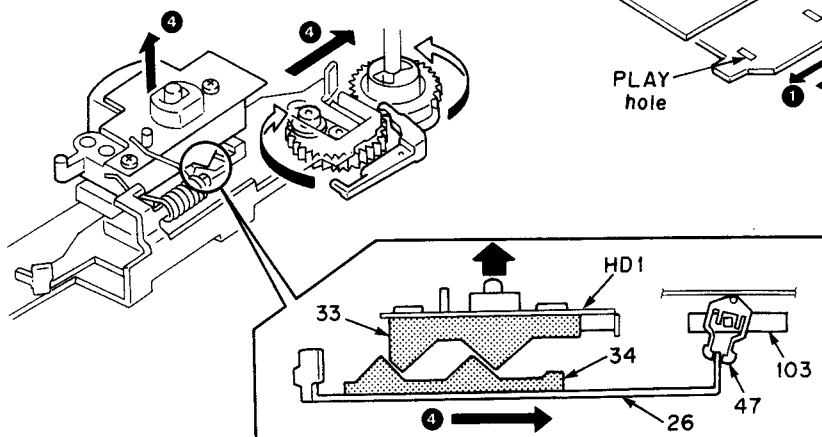
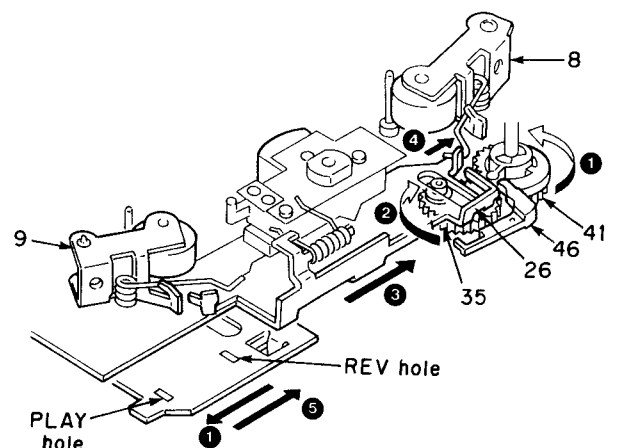


8. REV PLAY (PROGRAM)

When the tape end is reached or the PROGRAM switch is pressed, the sub motor (M2) rotates and cause the mode gear (41) to rotate ①.

The mode gear (41) unlocks the lock lever (46) and cause the reverse gear (35) to rotate by a half turn ②. The reverse gear (35) moves the reverse slider (26) ③.

The reverse slider (26) changes the pinch rollers (8, 9), slide switch (103) and the height of the PB head ④.

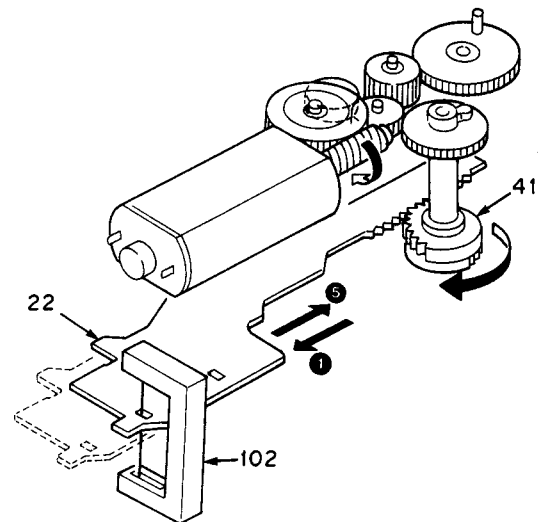


KRC-658R

MECHANISM OPERATION DESCRIPTION

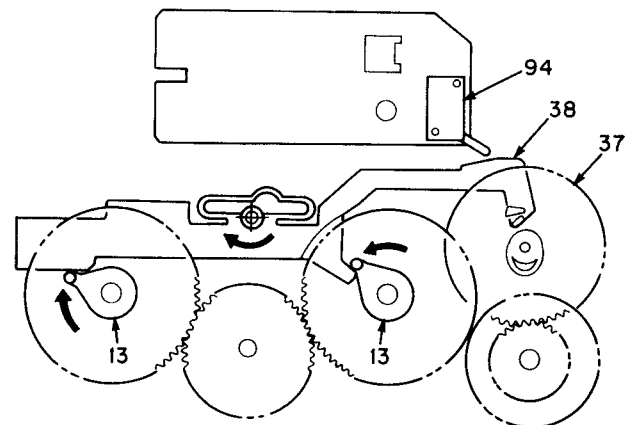
When the mode sensor (102) detects the REV hole on the PRO plate (22), the sub motor rotates in the reverse direction and stops when the mode sensor (102) detects the PLAY hole on the PRO plate (22) ⑤.

During the above operation, the reverse gear (35) does not rotate thanks to the lock lever (46).



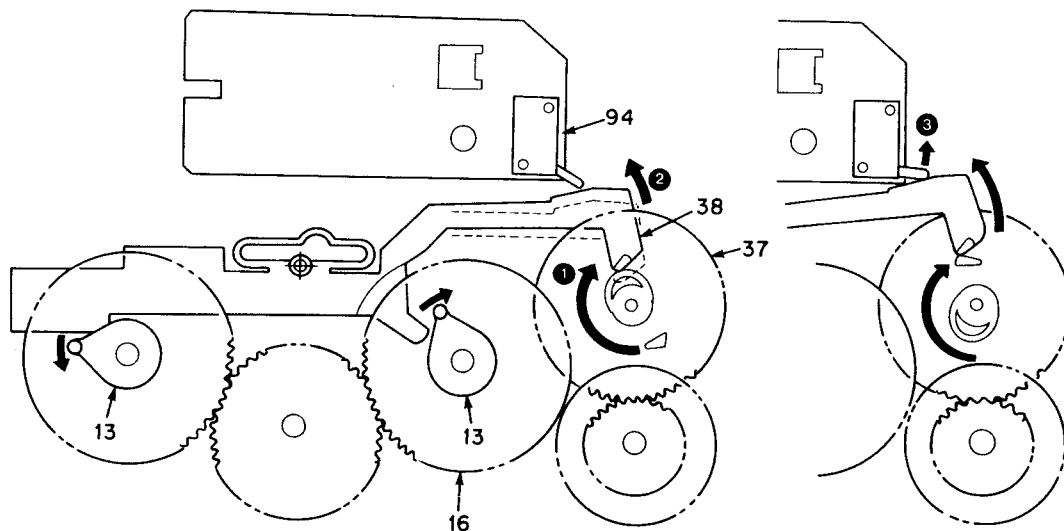
9. AUTO REVERSE (End detect)

When the end of the tape is reached during playback and the reel disk assembly (16) stops rotating, the ED plate (38) is pushed by the ED gear (37) ①.



The ED gear (37) rotates and the boss pushes the ED plate (38) further ②. The ED plate (38) pushes the ED switch (94) ③.

The ED switch (94) starts the PROGRAM operation.

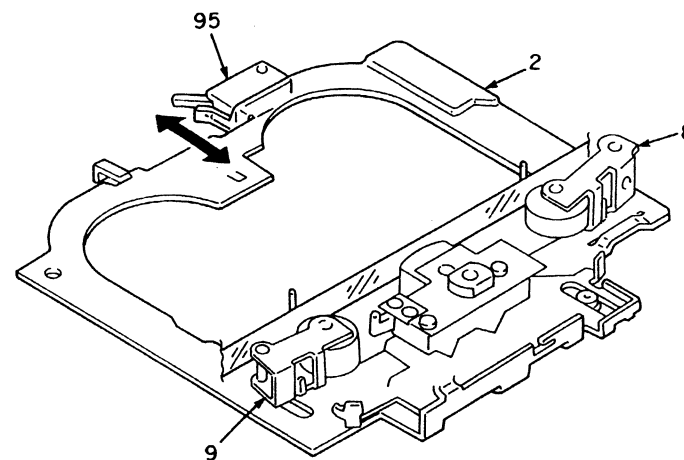


KRC-658R

MECHANISM OPERATION DESCRIPTION

10. STANDBY (PAUSE)

From a given mode, when the head plate (2) regresses due to the reverse rotation of the sub motor rotates, when the pause switches (95) acts ("L" to "H") to stop the rotation of the sub motor, the pause mode is entered.



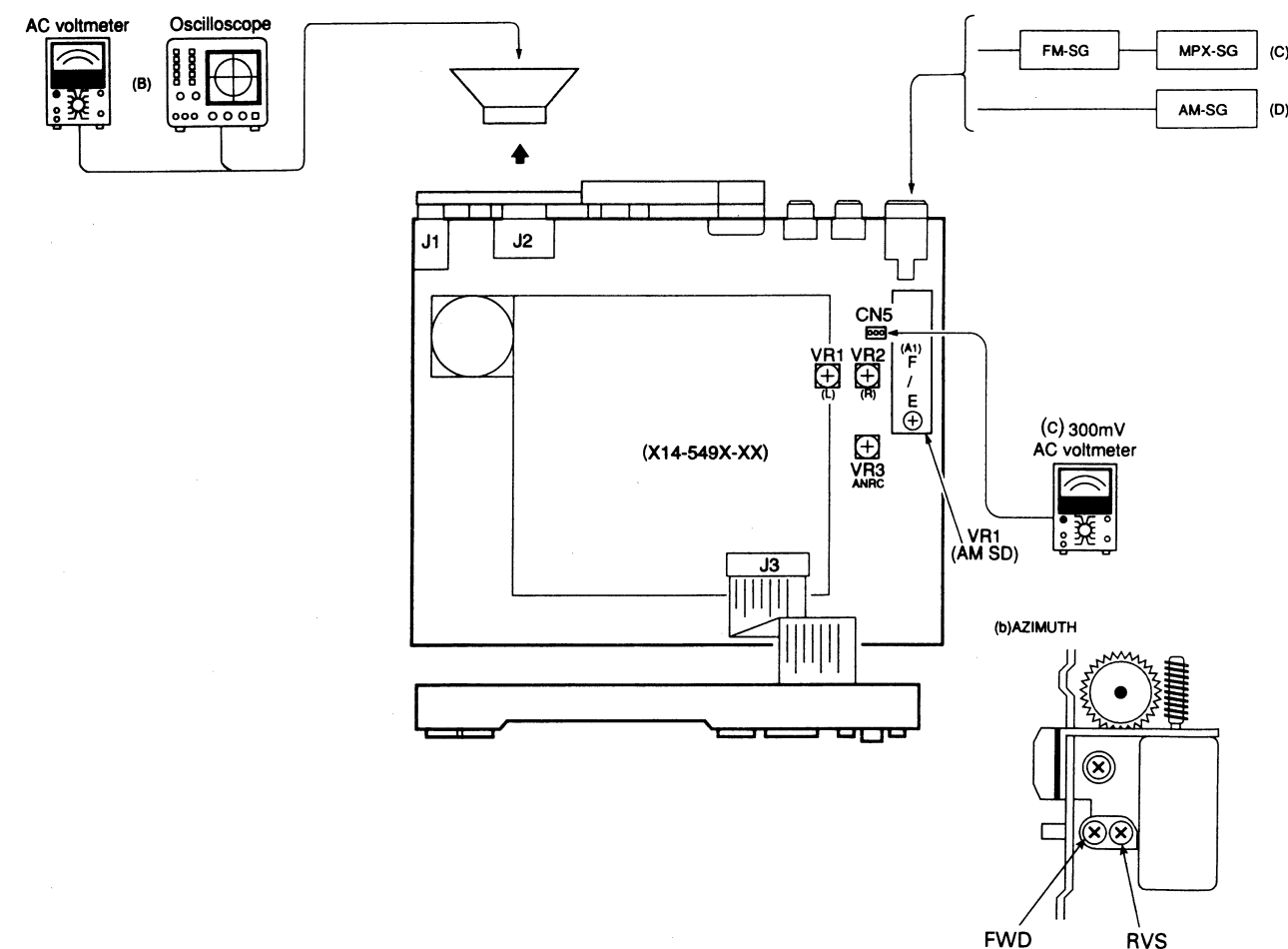
11. EJECT

When the sub motor is reversely rotated, an operation reverse to the loading operation is performed to eject the cassette tape.

KRC-658R

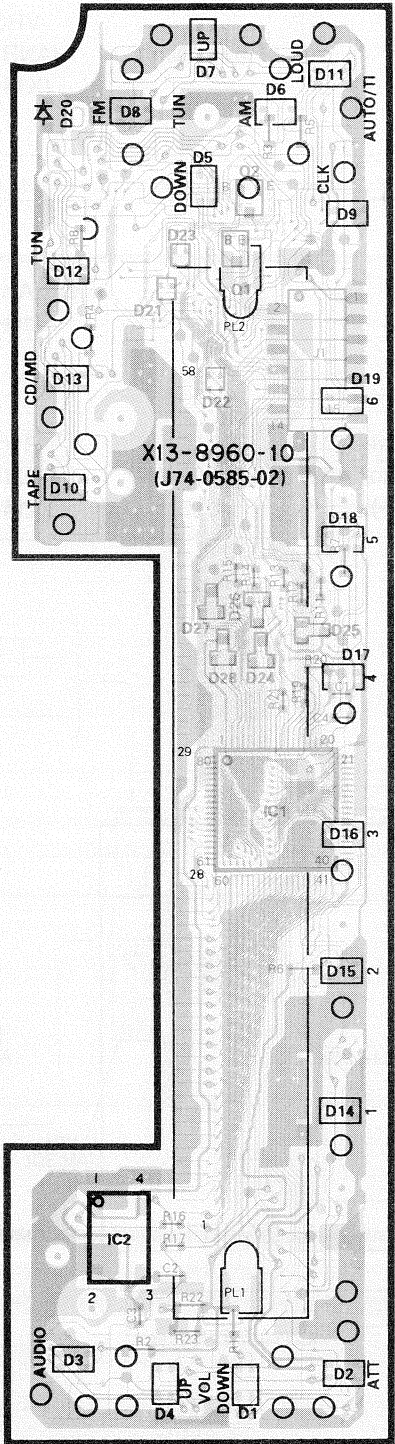
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	ANRC	(C) 98.1 MHz 1KHz, ± 40 kHz dev Pilot: ± 6.0 kHz dev Selector : L or R 35dBu(ANT input)	(B)	FM98.1MHz	VR3 (ANRC) (X14-)	Separation 10dB	
CASSETTE DECK SECTION							
1	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L ch/ R ch or FWD/RVS becomes maximum.	(b)
2	PLAY BACK LEVEL	MTT-150	Connect an AC voltmeter to CN5. (X14-)	TAPE PLAY	VR1(L) VR2(R) (X14-)	300mV	(c)

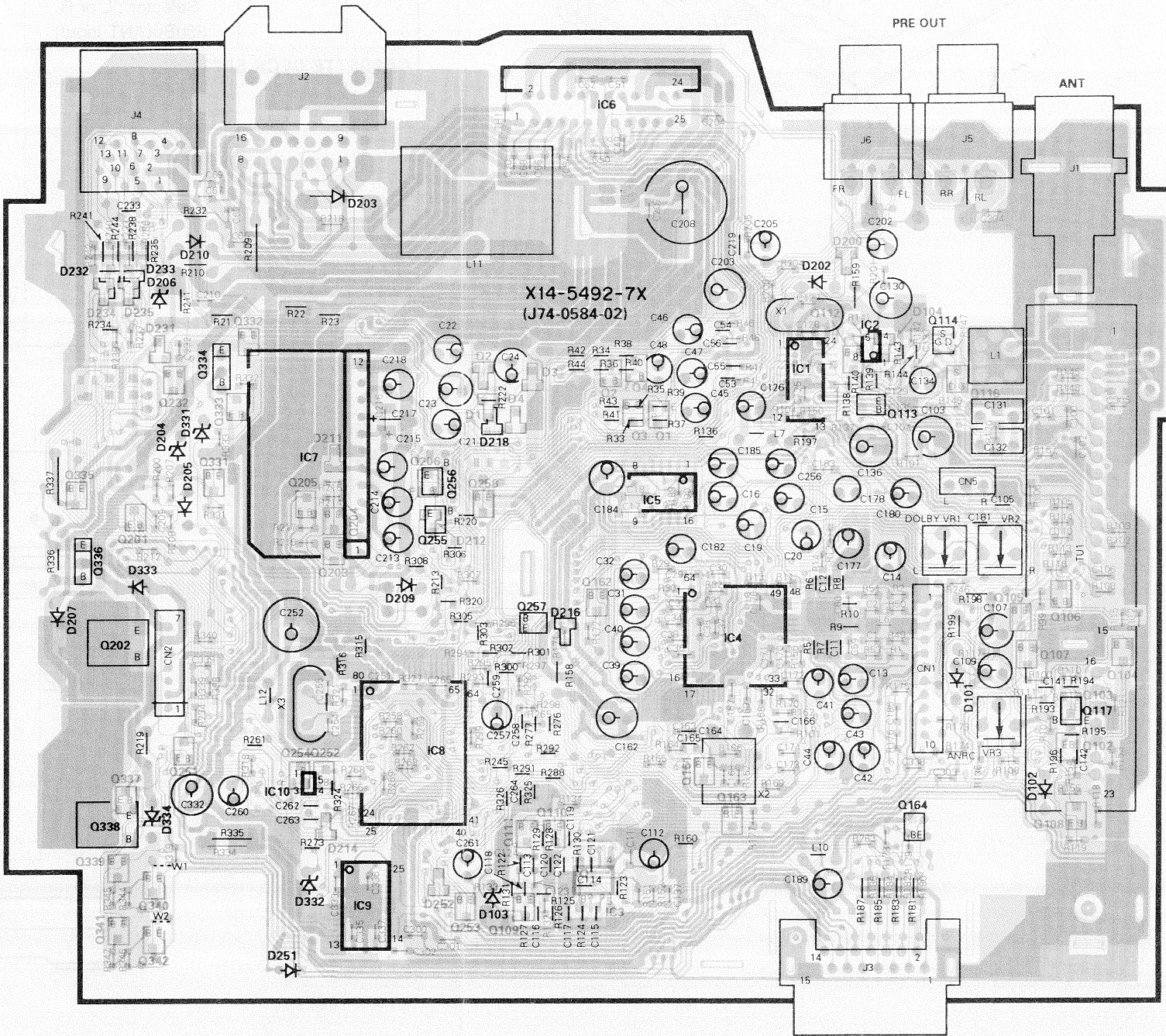


PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT : X13-8960-10



SYNTHESIZER UNIT : X14-5492-70



(X14-5492-70)		
IC	Q	address
1		4G
2		4G
3		6F
4		5G
5		4F
6		3F
7		4E
8		5E
9		6E
10		6E
1		4F
2		4F
3		4F
4		4F
102		5H
103		5H
104		5H
105		5H
106		5H
107		5H
108		6H
109		6F
110		6F
111		6F
112		4G
113		4G
114		4H
116		4H
117		5H

161	6G
162	5F
163	6G
164	6G
201	4D
202	5D
203	5E
204	4E
205	4E
206	4E
232	4D
251	5D
252	6E
253	6E
254	6E
255	4E
256	4E
257	5F
258	5F
331	4D
332	4E
333	4D
334	4D
335	4D
336	5D
337	6D
338	6D
339	6D
340	6D
341	6D
342	6D

(X13-8960-10)		
IC	Q	address
1		5C
2		6B
1		3C
2		3C

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

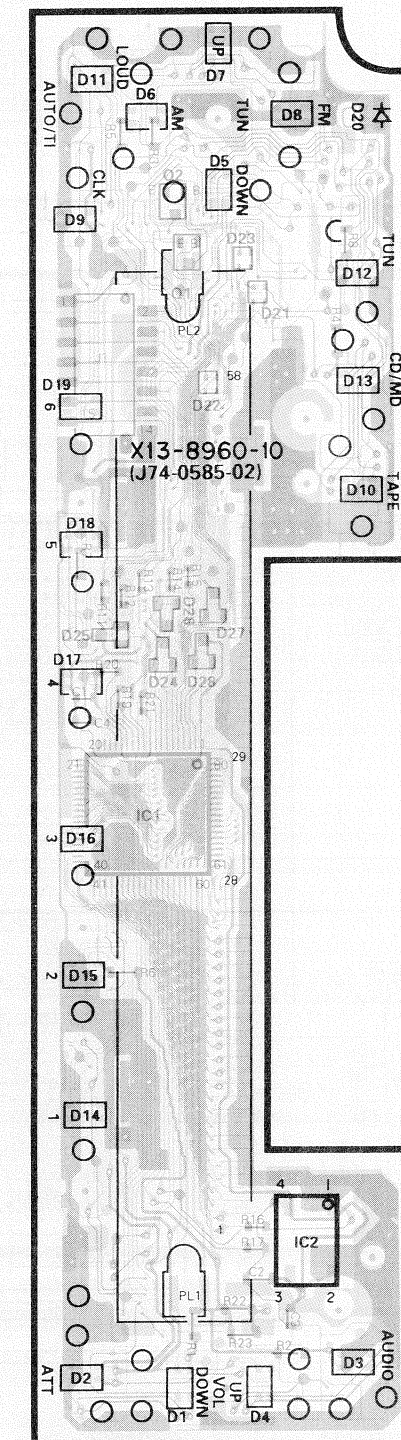
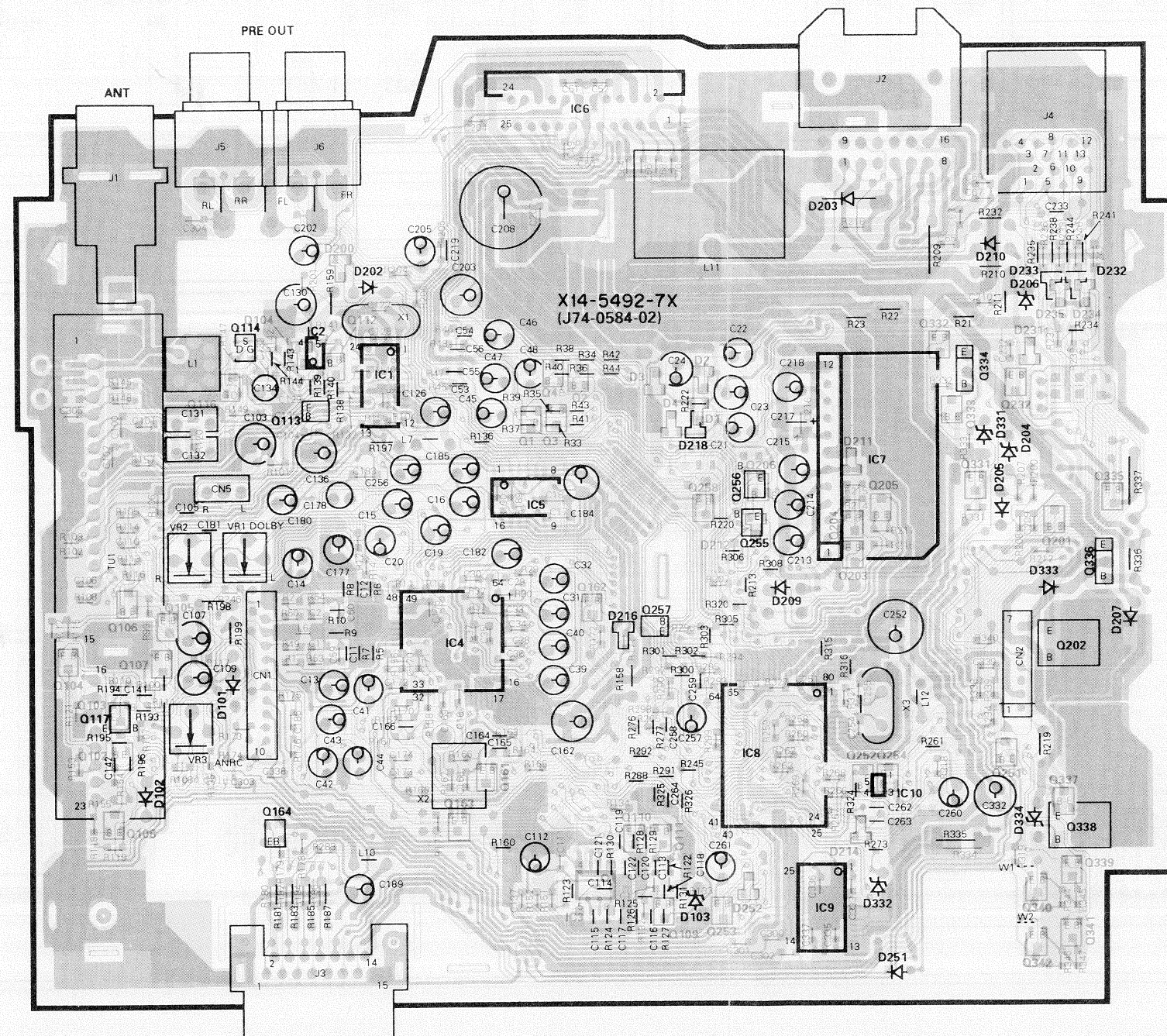
SWITCH UNIT : X13-8960-10

SYNTHESIZER UNIT : X14-5492-70

(X14-5492-70)		
IC	Q	address
1		4N
2		4N
3		6Q
4		5N
5		4O
6		3O
7		4P
8		5P
9		6P
10		6P
1		4O
2		4O
3		4O
4		4O
102		5M
103		5M
104		5M
105		5M
106		5M
107		5M
108		6M
109		6O
110		6O
111		6O
112		4N
113		4N
114		4M
116		4M
117		5M

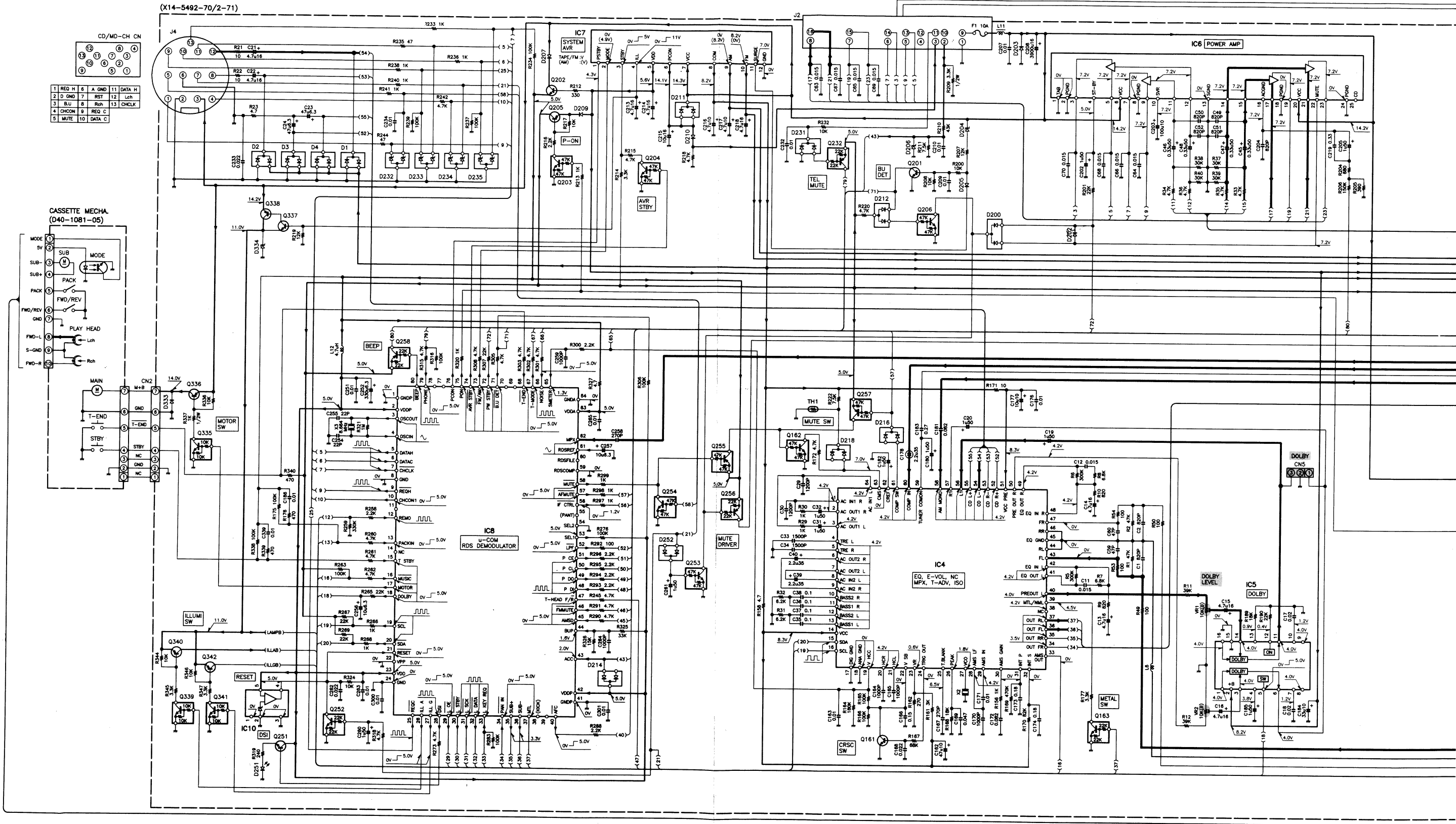
161	6N
162	5O
163	6N
164	6N
201	4Q
202	5Q
203	5P
204	4P
205	4P
206	4P
232	4Q
251	5Q
252	6P
253	6P
254	6P
255	4P
256	4P
257	5O
258	5O
331	4Q
332	4P
333	4Q
334	4Q
335	4Q
336	5Q
337	6Q
338	6Q
339	6Q
340	6Q
341	6Q
342	6Q

(X13-8960-10)		
IC	Q	address
1		5R
2		6S
1		3R
2		3R



Refer to the schematic diagram for the values of resistors and capacitors.

(X14-5492-70/2-71)



DTA114EK DTC143TK
DTA124EK DTC144EK
DTA144EK 2SA1036K
DTC114EK 2SA1037K
DTC114TK 2SC2412K
DTC124EK

2SB1184

2SB1443

NJM4565M-TE2

DAN202K

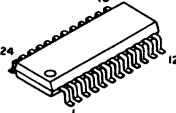
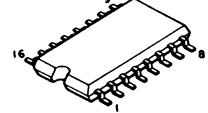
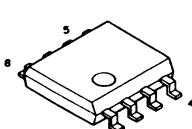
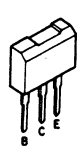
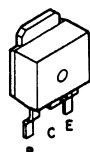
DA204K

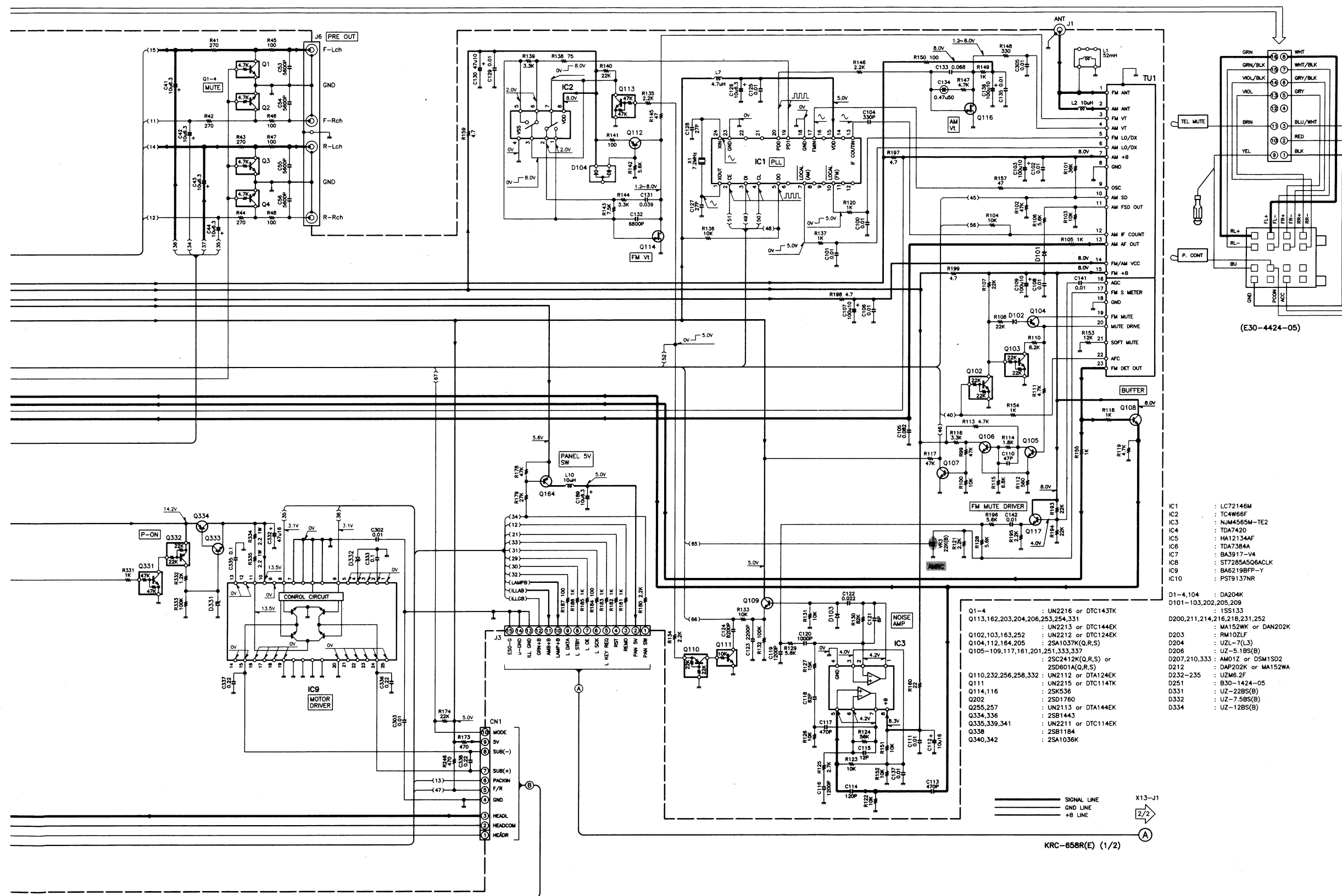
2SK536

DA227

HA12134AF

LC72146M





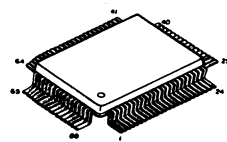
(E30-4424-05)

- IC1 : LC72146M
 IC2 : TC4W66F
 IC3 : NJM4556M-TE2
 IC4 : TDA7420
 IC5 : HA12134AF
 IC6 : TDA7384A
 IC7 : BA3917-V4
 IC8 : S17285A5Q6ACK
 IC9 : BA6219BFP-Y
 IC10 : PST9137NR
- D1-4,104 : DA204K
 D101-103,202,205,209 : 1SS133
 D200,211,214,216,218,231,252 : MA152WK or DAN202K
 D203 : RM102LF
 D204 : UZL-7(L3)
 D206 : UZ-5,18S(B)
 D207,210,333 : AM012 or DSM1S02
 D212 : DAP202K or MA152WA
 D232-235 : UZM6.2F
 D251 : B30-1424-05
 D331 : UZ-228S(B)
 D332 : UZ-7.5BS(B)
 D334 : UZ-128S(B)

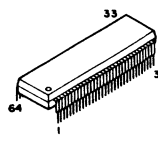
CAUTION :
 For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 △ Indicates safety critical components.
 To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product.

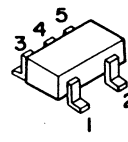
ST7285A5Q6ACK



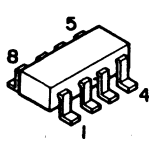
TDA7420



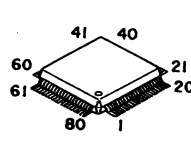
PST9137NR



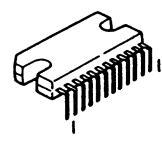
TC4W66F



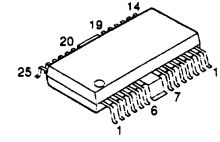
UPD16431A



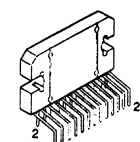
BA3917-V4



BA6219BFP-Y

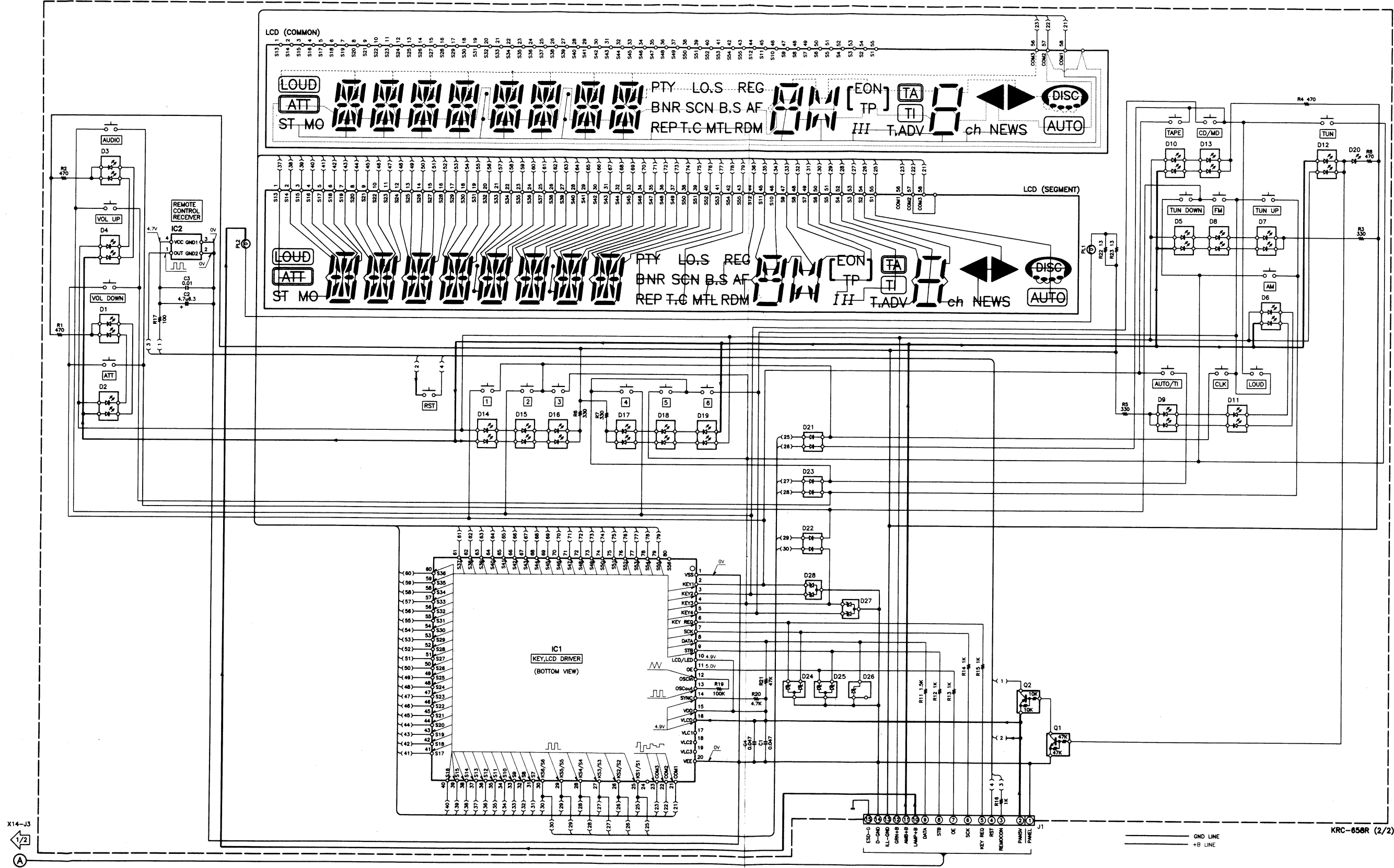


TDA7384A



KRC-658R
 KENWOOD

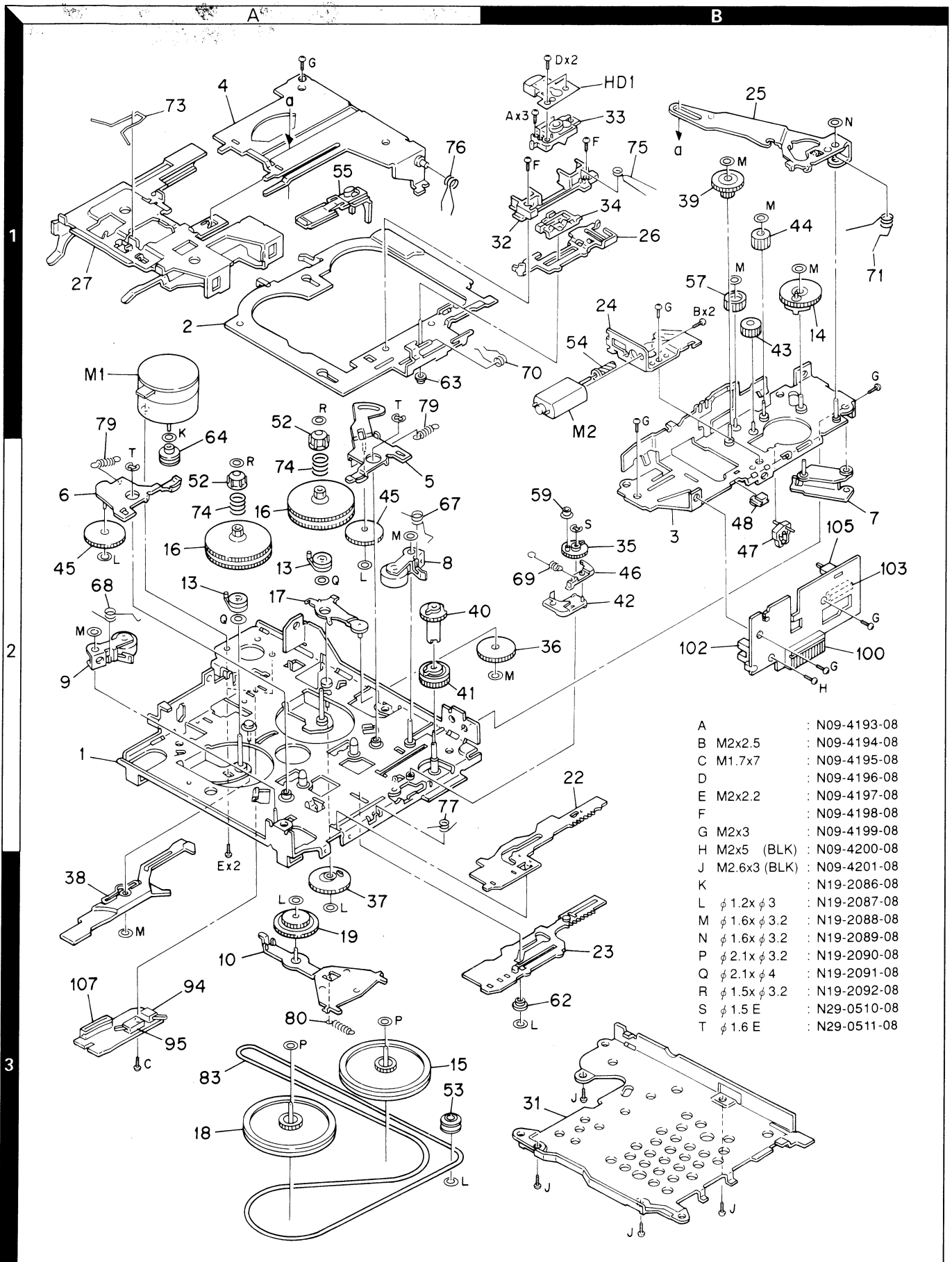
SWITCH UNIT (X13-8960-10/2-71)



- IC1 : UPD16431A
- IC2 : RS-141
- D1-D19 : B30-1349-05
- D20 : B30-1424-05(R)
- D21-23 : DA227
- D24,25,27,28 : UZMA6.2F
- D26 : UZM6.2B(Y)
- Q1 : DTC144EK
- Q2 : DTA114EK

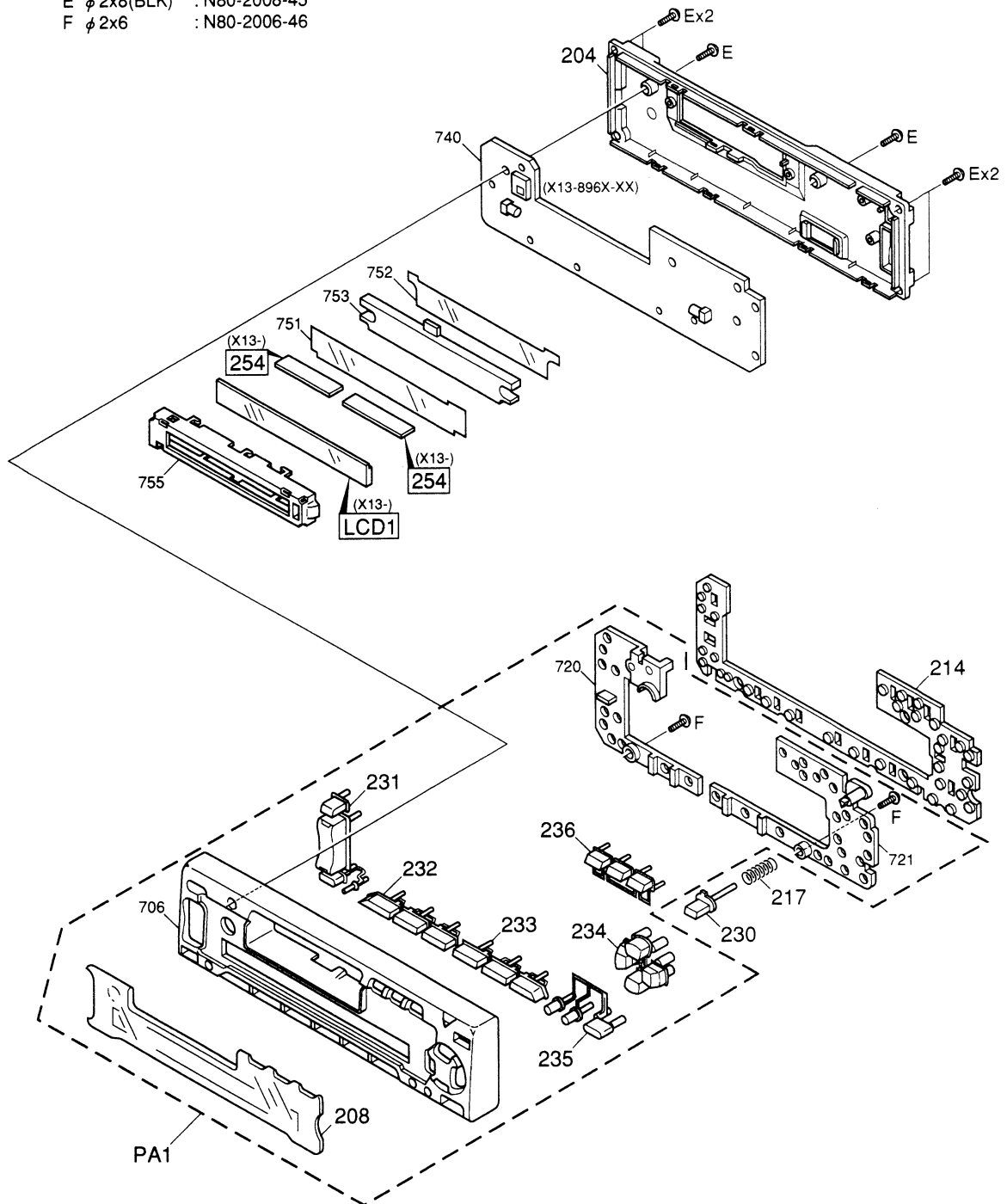
KRC-658R
KENWOOD

EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)

E ϕ 2x8(BLK) : N80-2008-45
F ϕ 2x6 : N80-2006-46



KRC-658R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref No.	N w	Parts No.	Description/Destination
KRC-658R			
201	1C	A02-1444-03	PLASTIC CABINET ASSY
203	3C	* A22-1277-01	SUB PANEL
204	1F	A46-1257-01	REAR COVER
205	1D	* A52-0705-02	TOP PLATE
CL1	3D	* A53-1638-03	CASSETTE LID
PA1	3E	* A64-0888-02	PANEL ASSY
207	3C	* B07-2081-02	ESCUTCHEON
208	3E	* B10-1712-01	FRONT GLASS
-		B46-0100-50	WARRANTY CARD
-		B46-0182-14	ID CARD
-		B58-1223-04	CAUTION CARD
-		B58-1225-04	CAUTION CARD
-		B64-0930-00	INST.MANUAL(GER,ITA,SPA)
-		B64-0931-00	INST.MANUAL(ENG,FRE)
-		B64-0932-00	INST.MANUAL(DUT,POR)
210	1C	D10-3031-04	LEVER
211	3D	* D10-4051-03	LEVER
212	3D	* D10-4052-03	LEVER
213	3D	* D21-2250-04	SHAFT
ME1	2C	D40-1081-05	CASSETTE MECHANISM ASSY
214	2F	E29-1514-02	CONDUCTIVE RUBBER
DC1	1C	E30-4424-05	DC CORD
F1	2D	F52-0006-05	FUSE(MINI BLADE TYPE)
216	3D	G01-2525-04	TORSION COIL SPRING
217	3F	G01-2738-04	COMPRESSION SPRING
218	3D	* G01-2792-04	EXTENSION SPRING
219	3D	* G02-1244-03	FLAT SPRING
-		* H10-4555-02	POLYSTYRENE FOAMED FIXTURE
-		H25-0337-04	PROTECTION BAG (180X300X0.03)
-		H25-1111-04	PROTECTION BAG (280X450X0.03)
-		* H54-0770-04	ITEM CARTON CASE
222	1C	J21-7630-13	MOUNTING HARDWARE ASSY
224	3D	* J21-7726-04	MOUNTING HARDWARE
230	3F	K24-1763-04	KNØB(RELEASE)
231	2E	K25-0786-03	KNØB(AUD)
232	3E	K25-0788-03	KNØB(1,2,3)
233	3E	K25-0789-03	KNØB(4,5,6)
234	3F	K25-0790-03	KNØB(FM,AM)
235	3F	K25-0791-03	KNØB(AUTO)
236	3F	K25-0792-03	KNØB(TUNE)
239	1C	N09-1885-05	SEMS (MACHINE SCREW)
A	1D	N83-3005-46	PAN HEAD TAPTITE SCREW
C	3C	N30-2608-45	PAN HEAD MACHINE SCREW
E	1F	N80-2008-45	PAN HEAD TAPTITE SCREW
F	2F	N80-2006-46	PAN HEAD TAPTITE SCREW
240	1C	* T90-0512-05	ANTENNA ADAPTOR
SWITCH UNIT (X13-8960-10)			
D1	-19	B30-1349-05	LED
D20		R30-1424-05	LED

SWITCH UNIT (X13-8960-10)

Ref No.	N w	Parts No.	Description/Destination
LCD1	2E	B38-0668-05	LIQUID CRYSTAL
PL1	,2	B30-1485-05	LAMP (5.5V .125A)
C1		CK73FB1E473KTA	CHIP C 0.047UF K
C2		C92-0507-05	CHIP-TAN 4.7UF 6.3WV
C3		CK73FB1H103K	CHIP C 0.010UF K
C4		CK73FB1E473KTA	CHIP C 0.047UF K
254	2E	* E29-1516-04	CONDUCTIVE RUBBER
J1		E59-0824-05	RECTANGULAR PLUG
R1	,2	RK73EB2B471J	CHIP R 470 J 1/8W
R3		RK73EB2B331J	CHIP R 330 J 1/8W
R4		RK73EB2B471J	CHIP R 470 J 1/8W
R5	-7	RK73EB2B331J	CHIP R 330 J 1/8W
R8		RK73EB2B471J	CHIP R 470 J 1/8W
R11		RK73FB2A152J	CHIP R 1.5K J 1/10W
R12	-16	RK73FB2A102J	CHIP R 1.0K J 1/10W
R17		RK73FB2A101J	CHIP R 100 J 1/10W
R19		RK73FB2A104J	CHIP R 100K J 1/10W
R20		RK73FB2A472J	CHIP R 4.7K J 1/10W
R21		RK73FB2A473J	CHIP R 47K J 1/10W
R22	,23	RK73EB2B130J	CHIP R 13 J 1/8W
D21	-23	DA227	DIODE
D24	,25	UZMA6.2F	ZENER DIODE
D26		UZM6.2B(Y)	ZENER DIODE
D27	,28	UZMA6.2F	ZENER DIODE
IC1		UPD16431A	MOS-IC
IC2		RS-141	ANALOGUE IC
Q1		DTC144EK	DIGITAL TRANSISTOR
Q1		UN2213	DIGITAL TRANSISTOR
Q2		DTA114EK	DIGITAL TRANSISTOR
Q2		UN2111	DIGITAL TRANSISTOR
SYNTHESIZER UNIT (X14-5492-70)			
D251		B30-1424-05	LED
C1	,2	CK73FB1H821K	CHIP C 820PF K
C11	,12	CK73FB1H153KTA	CHIP C 0.015UF K
C13	-16	C90-2595-05	ELECTRO 4.7UF 16WV
C17	,18	C93-0025-05	CERAMIC 0.22UF K
C19	,20	C90-2608-05	ELECTRO 1.0UF 50WV
C21	,22	C90-2595-05	ELECTRO 4.7UF 16WV
C23	,24	CE04CW0J470M	ELECTRO 47UF 6.3WV
C29	,30	CK73FB1H122K	CHIP C 1200PF K
C31	,32	C90-2608-05	ELECTRO 1.0UF 50WV
C33	,34	CK73FB1H152K	CHIP C 1500PF K
C35	-38	CK73FB1C104K	CHIP C 0.10UF K
C39	,40	C90-2600-05	ELECTRO 2.2UF 35WV
C41	-44	C90-2592-05	ELECTRO 10UF 6.3WV
C45	-48	C90-2605-05	ELECTRO 0.33UF 50WV
C49	-52	CK73FB1H821K	CHIP C 820PF K
C53	-56	CK73FB1H562K	CHIP C 5600PF K
C59	,60	CC73FCH1H470J	CHIP C 47PF J
C63	-70	CK73FB1H153KTA	CHIP C 0.015UF K
C100-102		CK73FB1H103K	CHIP C 0.010UF K
C103		CE04CW1A101M	ELECTRO 100UF 10WV

E: Europe K: North America M: Other Areas W: Without Europe

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

SYNTHESIZER UNIT (X14-5492-70)

Ref No.	New	Parts No.	Description/Destination
C104		CK73FB1H331K	CHIP C 330PF K
C105		CK73FB1C823K	CHIP C 0.082UF K
C106		CK73FB1H103K	CHIP C 0.010UF K
C107		CE04DW1A101M	ELECTRO 100UF 10WV
C108		CK73FB1H103K	CHIP C 0.010UF K
C109		CE04DW1A101M	ELECTRO 100UF 10WV
C110		CC73FCH1H470J	CHIP C 47PF J
C111		CK73FB1H103K	CHIP C 0.010UF K
C112		C90-2597-05	ELECTRO 10UF 16WV
C113		CK73FB1H471K	CHIP C 470PF K
C114		CC73FCH1H121J	CHIP C 120PF J
C115		CC73FCH1H120J	CHIP C 12PF J
C116		CK73FB1H103K	CHIP C 1200PF K
C117		CK73FB1H471K	CHIP C 470PF K
C118		CC73FCH1H820J	CHIP C 82PF J
C119		CK73FB1H122K	CHIP C 1200PF K
C120		CK73FB1H102K	CHIP C 1000PF K
C121		CC73FCH1H060D	CHIP C 6.0PF D
C122		CK73FB1H223KTA	CHIP C 0.022UF K
C123		CK73FB1H222K	CHIP C 2200PF K
C124		CK73FB1H822K	CHIP C 8200PF K
C125		CK73FB1H103K	CHIP C 0.010UF K
C126		C90-2592-05	ELECTRO 10UF 6.3WV
C127, 128		CC73FCH1H270J	CHIP C 27PF J
C129		CK73FB1H103K	CHIP C 0.010UF K
C130		CE04CW1A470M	ELECTRO 47UF 10WV
C131		CF92FV1H393J	MF-C 0.039UF J
C132		CF92FV1H682J	MF-C 6800PF J
C133		CK73FB1E683KTA	CHIP C 0.068UF K
C134		C90-2807-05	NP-ELEC 0.47UF 50WV
C135		CK73FB1H103K	CHIP C 0.010UF K
C136		CE04CW1A101M	ELECTRO 100UF 10WV
C137		CK73FB1H103K	CHIP C 0.010UF K
C141, 142		CK73FB1H103K	CHIP C 0.010UF K
C162		CE04CW1A470M	ELECTRO 47UF 10WV
C163		CK73FB1H103K	CHIP C 0.010UF K
C164, 165		CK73FB1H102K	CHIP C 1000PF K
C166		CK73FB1C154K	CHIP C 0.15UF K
C167		CC73FCH1H271J	CHIP C 270PF J
C168		CK73FB1H223KTA	CHIP C 0.022UF K
C169		CK73FB1E473KTA	CHIP C 0.047UF K
C170		CK73FB1H102K	CHIP C 1000PF K
C171		CK73FB1H103K	CHIP C 0.010UF K
C172		CK73FB1C823K	CHIP C 0.082UF K
C173, 174		CK73FB1C184K	CHIP C 0.18UF K
C176		CK73FB1H103K	CHIP C 0.010UF K
C177		C90-2854-05	ELECTRO 10UF 10WV
C178		C90-2525-05	NP-ELECT 2.2UF 35WV
C180		C90-2608-05	ELECTRO 1.0UF 50WV
C181		CK73FB1C823K	CHIP C 0.082UF K
C182		C90-2608-05	ELECTRO 1.0UF 50WV
C183		CK73EB1E274K	CHIP C 0.27UF K
C184		CE04CW1A330M	ELECTRO 33UF 10WV
C185		C90-2608-05	ELECTRO 1.0UF 50WV
C186		CK73FB1H103K	CHIP C 0.010UF K
C189		C90-2592-05	ELECTRO 10UF 6.3WV
C202		C90-2608-05	ELECTRO 1.0UF 50WV
C203		CE04CW1A101M	ELECTRO 100UF 10WV
C204		CK73FB1H821K	CHIP C 820PF K
C205		C90-2608-05	ELECTRO 1.0UF 50WV
C207		CK73FB1H103K	CHIP C 0.010UF K
C208		C90-2856-05	ELECTRO 3900UF 16WV
C209, 210		CK73FB1H103K	CHIP C 0.010UF K
C213, 214		C90-2595-05	ELECTRO 4.7UF 16WV
C215		C90-2597-05	ELECTRO 10UF 16WV
C216, 217		C92-0009-05	CHIP-TAN 4.7UF 10WV
C218		C90-2595-05	ELECTRO 4.7UF 16WV
C219		CK73EB1C334K	CHIP C 0.33UF K
C232		CK73FB1H103K	CHIP C 0.010UF K
C233		CK73FB1H223KTA	CHIP C 0.022UF K
C234		CK73FB1H103K	CHIP C 0.010UF K
C251		CK73FB1H103K	CHIP C 0.010UF K
C252		CE04CW0J331M	ELECTRO 330UF 6.3WV
C254, 255		CC73FCH1H220J	CHIP C 22PF J
C256, 257		C90-2592-05	ELECTRO 10UF 6.3WV
C258		CK73FB1H271K	CHIP C 270PF K
C259		CK73FB1H102K	CHIP C 1000PF K
C260, 261		C90-2608-05	ELECTRO 1.0UF 50WV
C262		CK73FB1H223KTA	CHIP C 0.022UF K
C263		CK73FB1H103K	CHIP C 0.010UF K
C264		CK73FB1H102K	CHIP C 1000PF K
C265		CK73FB1H103K	CHIP C 0.010UF K
C300-305		CK73FB1H103K	CHIP C 0.010UF K
C332		CE04CW1C470M	ELECTRO 47UF 16WV
C333		CK73FB1C104K	CHIP C 0.10UF K
C335		CK73FB1C104K	CHIP C 0.10UF K
C336-338		CK73FB1C224K	CHIP C 0.22UF K
C339		CK73FB1H103K	CHIP C 0.010UF K
262 2D		E29-1497-04	LEAD PLATE
263 2D		E31-8094-05	LEAD WIRE
CN1		E40-9541-05	PIN ASSY
CN5		E40-9184-05	PIN ASSY
J1		E04-0306-05	RF COAXIAL CABLE RECEPTACLE
J2		E58-0836-05	RECTANGULAR RECEPTACLE
J3		E58-0854-05	RECTANGULAR RECEPTACLE
J4		E56-0809-05	CYLINDRICAL RECEPTACLE
J6		E13-0446-05	PHONE JACK (4P RCA)
L1		L33-1039-05	LINE FILTER COIL
L2		L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)
L6		L92-0308-05	FERRITE CORE
L7		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)
L10		L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)
L11		L33-1063-05	CHOKE COIL
L12		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)
X1		L77-1166-05	CRYSTAL RESONATOR
X2		L78-0545-05	RESONATOR (CSB456FB38,AN)
X3		L77-2051-05	CRYSTAL RESONATOR(8.664M)
A 1D		N83-3005-46	PAN HEAD TAPTITE SCREW
R 1D		N80-3010-46	PAN HEAD TAPTITE SCREW

E: Europe K: North America M: Other Areas W: Without Europe

⚠ indicates safety critical components.

KRC-658R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

SYNTHESIZER UNIT (X14-5492-70)

Ref No.	New	Parts No.	Description/Destination
D 1D		N30-3012-46	PAN HEAD MACHINE SCREW
R1 ,2		RK73FB2A473J	CHIP R 47K J 1/10W
R5 ,6		RK73FB2A304J	CHIP R 300K J 1/10W
R7 ,8		RK73FB2A682J	CHIP R 6.8K J 1/10W
R9 ,10		RK73FB2A821J	CHIP R 820 J 1/10W
R11 ,12		RK73FB2A393J	CHIP R 39K J 1/10W
R21 ,22		RK73EB2B100J	CHIP R 10 J 1/8W
R23 ,30		RK73EB2B4R7J	CHIP R 4.7 J 1/8W
R29 ,32		RK73FB2A102J	CHIP R 1.0K J 1/10W
R31 ,32		RK73FB2A622J	CHIP R 6.2K J 1/10W
R33 -36		RK73FB2A472J	CHIP R 4.7K J 1/10W
R37 -40		RK73FB2A303J	CHIP R 30K J 1/10W
R41 -44		RK73FB2A271J	CHIP R 270 J 1/10W
R45 -50		RK73FB2A101J	CHIP R 100 J 1/10W
R53 ,54		RK73FB2A101J	CHIP R 100 J 1/10W
R99		RK73FB2A473J	CHIP R 47K J 1/10W
R100		RK73FB2A103J	CHIP R 10K J 1/10W
R101		RK73FB2A363J	CHIP R 36K J 1/10W
R102		RK73FB2A473J	CHIP R 47K J 1/10W
R103, 104		RK73FB2A103J	CHIP R 10K J 1/10W
R105		RK73FB2A102J	CHIP R 1.0K J 1/10W
R106		RK73EB2B562J	CHIP R 5.6K J 1/8W
R107, 108		RK73FB2A223J	CHIP R 22K J 1/10W
R110		RK73FB2A822J	CHIP R 8.2K J 1/10W
R111		RK73FB2A472J	CHIP R 4.7K J 1/10W
R112		RK73FB2A561J	CHIP R 560 J 1/10W
R113		RK73FB2A472J	CHIP R 4.7K J 1/10W
R114		RK73FB2A182J	CHIP R 1.8K J 1/10W
R115		RK73FB2A682J	CHIP R 6.8K J 1/10W
R116		RK73FB2A332J	CHIP R 3.3K J 1/10W
R117		RK73FB2A473J	CHIP R 47K J 1/10W
R118		RK73FB2A102J	CHIP R 1.0K J 1/10W
R119		RK73FB2A472J	CHIP R 4.7K J 1/10W
R120		RK73FB2A102J	CHIP R 1.0K J 1/10W
R121		RK73FB2A222J	CHIP R 2.2K J 1/10W
R122, 123		RK73FB2A103J	CHIP R 10K J 1/10W
R124		RK73FB2A563J	CHIP R 56K J 1/10W
R125		RK73FB2A272J	CHIP R 2.7K J 1/10W
R126		RK73FB2A103J	CHIP R 10K J 1/10W
R127		RK73FB2A153J	CHIP R 15K J 1/10W
R128, 129		RK73FB2A562J	CHIP R 5.6K J 1/10W
R130		RK73FB2A823J	CHIP R 82K J 1/10W
R131		RK73FB2A103J	CHIP R 10K J 1/10W
R132		RK73FB2A104J	CHIP R 100K J 1/10W
R133		RK73FB2A103J	CHIP R 10K J 1/10W
R134, 135		RK73FB2A222J	CHIP R 2.2K J 1/10W
R136		RK73FB2A103J	CHIP R 10K J 1/10W
R137		RK73FB2A102J	CHIP R 1.0K J 1/10W
R138		RK73FB2A750J	CHIP R 75 J 1/10W
R139		RK73FB2A332J	CHIP R 3.3K J 1/10W
R140		RK73FB2A223J	CHIP R 22K J 1/10W
R141		RK73FB2A101J	CHIP R 100 J 1/10W
R142		RK73FB2A562J	CHIP R 5.6K J 1/10W
R143		RK73FB2A752J	CHIP R 7.5K J 1/10W

Ref No.	New	Parts No.	Description/Destination
R144		RK73FB2A332J	CHIP R 3.3K J 1/10W
R145		RK73FB2A470J	CHIP R 47 J 1/10W
R146		RK73FB2A222J	CHIP R 2.2K J 1/10W
R147		RK73FB2A472J	CHIP R 4.7K J 1/10W
R148		RK73FB2A331J	CHIP R 330 J 1/10W
R149		RK73FB2A102J	CHIP R 1.0K J 1/10W
R150		RK73FB2A101J	CHIP R 100 J 1/10W
R151, 152		RK73FB2A103J	CHIP R 10K J 1/10W
R153		RK73FB2A123J	CHIP R 12K J 1/10W
R154-156		RK73FB2A102J	CHIP R 1.0K J 1/10W
R157		RK73FB2A470J	CHIP R 47 J 1/10W
R160		RK73FB2A220J	CHIP R 22 J 1/10W
R161		RK73FB2A302J	CHIP R 3.0K J 1/10W
R162		RK73FB2A271J	CHIP R 270 J 1/10W
R164		RK73FB2A184J	CHIP R 180K J 1/10W
R165, 166		RK73FB2A104J	CHIP R 100K J 1/10W
R167		RK73FB2A683J	CHIP R 68K J 1/10W
R168		RK73FB2A183J	CHIP R 18K J 1/10W
R169		RK73FB2A474J	CHIP R 470K J 1/10W
R170		RK73FB2A823J	CHIP R 82K J 1/10W
R171		RK73FB2A100J	CHIP R 10 J 1/10W
R172		RK73FB2A472J	CHIP R 4.7K J 1/10W
R173		RK73FB2A471J	CHIP R 470 J 1/10W
R174		RK73FB2A223J	CHIP R 22K J 1/10W
R175		RK73FB2A104J	CHIP R 100K J 1/10W
R176		RK73FB2A471J	CHIP R 470 J 1/10W
R177		RK73FB2A332J	CHIP R 3.3K J 1/10W
R178		RK73FB2A473J	CHIP R 47K J 1/10W
R179		RK73FB2A273J	CHIP R 27K J 1/10W
R180		RK73EB2B222J	CHIP R 2.2K J 1/8W
R181-183		RK73EB2B102J	CHIP R 1.0K J 1/8W
R184		RK73EB2B101J	CHIP R 100 J 1/8W
R185, 186		RK73EB2B102J	CHIP R 1.0K J 1/8W
R187		RK73EB2B101J	CHIP R 100 J 1/8W
R189		RK73FB2A183J	CHIP R 18K J 1/10W
R190		RK73FB2A223J	CHIP R 22K J 1/10W
R193, 194		RK73FB2A223J	CHIP R 22K J 1/10W
R195		RK73FB2A222J	CHIP R 2.2K J 1/10W
R196		RK73FB2A562J	CHIP R 5.6K J 1/10W
R200		RK73FB2A103J	CHIP R 10K J 1/10W
R201		RK73FB2A223J	CHIP R 22K J 1/10W
R204		RK73FB2A681J	CHIP R 680 J 1/10W
R205		RK73FB2A391J	CHIP R 390 J 1/10W
R206		RK73FB2A154J	CHIP R 150K J 1/10W
R207		RK73FB2A123J	CHIP R 12K J 1/10W
R208		RK73FB2A103J	CHIP R 10K J 1/10W
R209		RD14DB2H332J	SMALL-RD 3.3K J 1/2W
R212		RK73FB2A331J	CHIP R 330 J 1/10W
R213		RK73FB2A102J	CHIP R 1.0K J 1/10W
R214		RK73FB2A332J	CHIP R 3.3K J 1/10W
R215		RK73FB2A472J	CHIP R 4.7K J 1/10W
R216		RK73FB2A222J	CHIP R 2.2K J 1/10W
R217		RK73FB2A103J	CHIP R 10K J 1/10W
R218		RK73EB2B472J	CHIP R 4.7K J 1/8W
R220		RK73FB2A472J	CHIP R 4.7K J 1/10W

E: Europe K: North America M: Other Areas W: Without Europe

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

SYNTHESIZER UNIT (X14-5492-70)

Ref No.	New	Parts No.	Description/Destination	Ref No.	New	Parts No.	Description/Destination
R222		RK73FB2A752J	CHIP R 7.5K J 1/10W	R346		RK73FB2A103J	CHIP R 10K J 1/10W
R233		RK73EB2B102J	CHIP R 1.0K J 1/8W	R347		RK73FB2A332J	CHIP R 3.3K J 1/10W
R234		RK73FB2A104J	CHIP R 100K J 1/10W	VR1 ,2		R12-0678-05	TRIMMING POT.(10K)
R235		RK73EB2B470J	CHIP R 47 J 1/8W	VR3		R12-0679-05	TRIMMING POT.(22K)
R236		RK73EB2B102J	CHIP R 1.0K J 1/8W				
R237		RK73FB2A104J	CHIP R 100K J 1/10W	D1 -4		DA204K	DIODE
R238		RK73EB2B102J	CHIP R 1.0K J 1/8W	D101-103		1SS133	DIODE
R239		RK73FB2A104J	CHIP R 100K J 1/10W	D104		DA204K	DIODE
R240,241		RK73EB2B102J	CHIP R 1.0K J 1/8W	D200		DAN202K	DIODE
R242		RK73EB2B472J	CHIP R 4.7K J 1/8W	D200		MA152WK	DIODE
R244		RK73EB2B470J	CHIP R 47 J 1/8W	D202		1SS133	DIODE
R245		RK73FB2A472J	CHIP R 4.7K J 1/10W	D203		RM10ZLF	DIODE
R246		RK73FB2A471J	CHIP R 470 J 1/10W	D204		UZL-7(L3)	ZENER DIODE
R258		RK73FB2A222J	CHIP R 2.2K J 1/10W	D205		1SS133	DIODE
R259		RK73FB2A334J	CHIP R 330K J 1/10W	D206		UZ-5.1BS(B)	ZENER DIODE
R260-262		RK73FB2A472J	CHIP R 4.7K J 1/10W	D207		AM01Z	DIODE
R263		RK73FB2A104J	CHIP R 100K J 1/10W	D207		DSM1SD2	DIODE
R265		RK73FB2A223J	CHIP R 22K J 1/10W	D209		1SS133	DIODE
R266		RK73FB2A102J	CHIP R 1.0K J 1/10W	D210		AM01Z	DIODE
R267		RK73FB2A223J	CHIP R 22K J 1/10W	D210		DSM1SD2	DIODE
R268		RK73FB2A102J	CHIP R 1.0K J 1/10W	D211		DAN202K	DIODE
R269		RK73FB2A223J	CHIP R 22K J 1/10W	D211		MA152WK	DIODE
R273		RK73FB2A472J	CHIP R 4.7K J 1/10W	D212		DAP202K	DIODE
R276		RK73FB2A104J	CHIP R 100K J 1/10W	D212		MA152WA	DIODE
R283		RK73FB2A104J	CHIP R 100K J 1/10W	D214		DAN202K	DIODE
R288		RK73FB2A222J	CHIP R 2.2K J 1/10W	D214		MA152WK	DIODE
R290,291		RK73FB2A472J	CHIP R 4.7K J 1/10W	D216		DAN202K	DIODE
R292		RK73FB2A101J	CHIP R 100 J 1/10W	D216		MA152WK	DIODE
R293-296		RK73FB2A222J	CHIP R 2.2K J 1/10W	D218		DAN202K	DIODE
R297-299		RK73FB2A102J	CHIP R 1.0K J 1/10W	D218		MA152WK	DIODE
R300		RK73FB2A222J	CHIP R 2.2K J 1/10W	D231		DAN202K	DIODE
R301-303		RK73FB2A472J	CHIP R 4.7K J 1/10W	D231		MA152WK	DIODE
R305		RK73FB2A472J	CHIP R 4.7K J 1/10W	D232-235		UZMA6.2F	ZENER DIODE
R306		RK73FB2A104J	CHIP R 100K J 1/10W	D252		DAN202K	DIODE
R307		RK73FB2A223J	CHIP R 22K J 1/10W	D252		MA152WK	DIODE
R308		RK73FB2A472J	CHIP R 4.7K J 1/10W	D331		UZ-22BS(B)	ZENER DIODE
R315		RK73FB2A472J	CHIP R 4.7K J 1/10W	D332		UZ-7.5BS(B)	ZENER DIODE
R316		RK73FB2A104J	CHIP R 100K J 1/10W	D333		AM01Z	DIODE
R318		RK73FB2A472J	CHIP R 4.7K J 1/10W	D333		DSM1SD2	DIODE
R319		RK73FB2A241J	CHIP R 240 J 1/10W	D334		UZ-12BS(B)	ZENER DIODE
R320		RK73FB2A102J	CHIP R 1.0K J 1/10W	IC1		LC72146M	MOS-IC
R321		RK73FB2A105J	CHIP R 1.0M J 1/10W	IC2		TC4W66F	IC
R324		RK73FB2A103J	CHIP R 10K J 1/10W	IC3		NJM4565M-TE2	ANALOGUE IC
R325		RK73FB2A333J	CHIP R 33K J 1/10W	IC4		TDA7420	ANALOGUE IC
R326		RK73FB2A153J	CHIP R 15K J 1/10W	IC5		HA12134AF	IC(DOLBY B NR SYSTEM)
R327		RK73FB2A4R7J	CHIP R 4.7 J 1/10W	IC6		TDA7384A	ANALOGUE IC
R331		RK73FB2A102J	CHIP R 1.0K J 1/10W	IC7		BA3917-V4	ANALOGUE IC
R332		RK73FB2A122J	CHIP R 1.2K J 1/10W	IC8		ST7285A5Q6ACLK	MI-COM IC
R333		RK73FB2A104J	CHIP R 100K J 1/10W	IC9		BA6219BFP-Y	ANALOGUE IC
R334,335		R92-2104-05	CHIP R 2.2 J 1W	IC10		PST9137NR	ANALOGUE IC
R337		RD14DB2H102J	SMALL-RD 1.0K J 1/2W	Q1 -4		DTC143TK	DIGITAL TRANSISTOR
R338		RK73FB2A104J	CHIP R 100K J 1/10W	Q1 -4		UN2216	DIGITAL TRANSISTOR
R339,340		RK73FB2A471J	CHIP R 470 J 1/10W	Q102,103		DTC124EK	DIGITAL TRANSISTOR
R344		RK73FB2A103J	CHIP R 10K J 1/10W	Q102,103		UN2212	DIGITAL TRANSISTOR
R345		RK73FB2A332J	CHIP R 3.3K J 1/10W	Q104		2SA1037K	TRANSISTOR

E: Europe K: North America M: Other Areas W: Without Europe

⚠ indicates safety critical components.

KRC-658R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

SYNTHESIZER UNIT (X14-5492-70)

Ref No.	N e w	Parts No.	Description/Destination
Q105-109		2SC2412K	TRANSISTOR
Q105-109		2SD601A	TRANSISTOR
Q110		DTA124EK	DIGITAL TRANSISTOR
Q110		UN2112	DIGITAL TRANSISTOR
Q111		DTC114TK	DIGITAL TRANSISTOR
Q111		UN2215	DIGITAL TRANSISTOR
Q112		2SA1037K	TRANSISTOR
Q113		DTC144EK	DIGITAL TRANSISTOR
Q113		UN2213	DIGITAL TRANSISTOR
Q114		2SK536	FET
Q116		2SK536	FET
Q117		2SC2412K	TRANSISTOR
Q117		2SD601A	TRANSISTOR
Q161		2SC2412K	TRANSISTOR
Q161		2SD601A	TRANSISTOR
Q162		DTC144EK	DIGITAL TRANSISTOR
Q162		UN2213	DIGITAL TRANSISTOR
Q163		DTC124EK	DIGITAL TRANSISTOR
Q163		UN2212	DIGITAL TRANSISTOR
Q164		2SA1037K	TRANSISTOR
Q201		2SC2412K	TRANSISTOR
Q201		2SD601A	TRANSISTOR
Q202		2SD1760	TRANSISTOR
Q203, 204		DTC144EK	DIGITAL TRANSISTOR
Q203, 204		UN2213	DIGITAL TRANSISTOR
Q205		2SA1037K	TRANSISTOR
Q206		DTC144EK	DIGITAL TRANSISTOR
Q206		UN2213	DIGITAL TRANSISTOR
Q232		DTA124EK	DIGITAL TRANSISTOR
Q232		UN2112	DIGITAL TRANSISTOR
Q251		2SC2412K	TRANSISTOR
Q251		2SD601A	TRANSISTOR
Q252		DTC124EK	DIGITAL TRANSISTOR
Q252		UN2212	DIGITAL TRANSISTOR
Q253, 254		DTC144EK	DIGITAL TRANSISTOR
Q253, 254		UN2213	DIGITAL TRANSISTOR
Q255		DTA144EK	DIGITAL TRANSISTOR
Q255		UN2113	DIGITAL TRANSISTOR
Q256		DTA124EK	DIGITAL TRANSISTOR
Q256		UN2112	DIGITAL TRANSISTOR
Q257		DTA144EK	DIGITAL TRANSISTOR
Q257		UN2113	DIGITAL TRANSISTOR
Q258		DTA124EK	DIGITAL TRANSISTOR
Q258		UN2112	DIGITAL TRANSISTOR
Q331		DTC144EK	DIGITAL TRANSISTOR
Q331		UN2213	DIGITAL TRANSISTOR
Q332		DTA124EK	DIGITAL TRANSISTOR
Q332		UN2112	DIGITAL TRANSISTOR
Q333		2SC2412K	TRANSISTOR
Q333		2SD601A	TRANSISTOR
Q334		2SB1443	TRANSISTOR
Q335		DTC114EK	DIGITAL TRANSISTOR
Q335		UN2211	DIGITAL TRANSISTOR
Q336		2SB1443	TRANSISTOR
Q337		2SC2412K	TRANSISTOR

Ref No.	N e w	Parts No.	Description/Destination
Q337		2SD601A	TRANSISTOR
Q338		2SB1184	TRANSISTOR
Q339		DTC114EK	DIGITAL TRANSISTOR
Q339		UN2211	DIGITAL TRANSISTOR
Q340		2SA1036K	TRANSISTOR
Q341		DTC114EK	DIGITAL TRANSISTOR
Q341		UN2211	DIGITAL TRANSISTOR
Q342		2SA1036K	TRANSISTOR
TH1		NT732ATD33KJ	THERMISTOR
TU1	2D	W02-1573-05	FM/AM FRONT-END
CASSETTE MECHANISM ASS'Y (D40-1081-05)			
1	2A	* A10-4329-08	CHASSIS ASSY
2	1A	* J21-7779-08	HEAD MOUNTING HARDWARE ASSY
3	2B	* A11-0931-08	SUB CHASSIS ASSY
4	1A	* D10-4106-08	ARM
5	2A	* D10-4107-08	ARM
6	2A	* D10-4108-08	ARM
7	2B	* D10-4109-08	ARM
8	2A	* D10-4110-08	ARM ASSY
9	2A	* D10-4111-08	ARM ASSY
10	3A	* D10-4112-08	ARM
13	2A	* D10-4113-08	ARM
14	1B	* D13-1324-08	GEAR ASSY
15	3A	* D01-0609-08	FLYWHEEL ASSY
16	2A	* D13-1325-08	GEAR ASSY
17	2A	* D10-4114-08	ARM ASSY
18	3A	* D01-0610-08	FLYWHEEL ASSY
19	3A	* D13-1326-08	GEAR ASSY
22	2B	* D10-4115-08	SLIDER
23	3B	* D10-4116-08	SLIDER
24	1B	* J21-7780-08	MOTOR MOUNTING HARDWARE
25	1B	* D10-4117-08	ARM
26	1B	* D10-4118-08	SLIDER
27	1A	* A52-0716-08	CASSETTE HOLDER
31	3B	* J21-7781-08	MOUNTING HARDWARE
32	1B	* J90-0767-08	GUID
33	1B	* J19-4737-08	BRACKET
34	1B	* D12-0622-08	CAM
35	2B	* D13-1327-08	GEAR
36	2B	* D13-1328-08	GEAR
37	3A	* D13-1329-08	GEAR
38	3A	* D10-4119-08	ARM
39	1B	* D13-1330-08	GEAR
40	2A	* D13-1331-08	GEAR
41	2A	* D13-1332-08	GEAR
42	3B	* J11-0619-08	CLAMPER
43	1B	* D13-1333-08	GEAR
44	1B	* D13-1334-08	GEAR
45	2A	* D13-1335-08	GEAR
46	2B	* D10-4120-08	ARM
47	2B	* J19-4738-08	HOLDER
48	2B	* J11-0620-08	CLAMPER
52	2A	* D03-0312-08	REEL CAP
53	3B	* D15-0913-08	PULLEY

E: Europe K: North America M: Other Areas W: Without Europe

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

CASSETTE MECHANISM ASS'Y (D40-1081-05)

Ref No.	N o w	Parts No.	Description/Destination
54	1B	* D13-1336-08	WORM
55	1A	* D10-4121-08	SLIDER
57	1B	* D13-1337-08	GEAR
59	2B	* J31-1036-08	COLLAR
62	3B	* D14-0683-08	ROLLER
63	1A	* D14-0684-08	ROLLER
64	2A	* D15-0914-08	PULLEY
67	2A	* G01-2832-08	TORSION COIL SPRING
68	2A	* G01-2833-08	TORSION COIL SPRING
69	2B	* G01-2834-08	TENSION COIL SPRING
70	1B	* G01-2835-08	TORSION COIL SPRING
71	1B	* G01-2836-08	TORSION COIL SPRING
73	1A	* G09-2020-08	SPRING
74	2A	* G01-2837-08	COMPRESSION SPRING
75	1B	* G01-2838-08	TORSION COIL SPRING
76	1A	* G01-2839-08	TORSION COIL SPRING
77	2B	* G01-2843-08	TORSION COIL SPRING
79	1A	* G01-2840-08	TENSION COIL SPRING
80	3A	* G01-2841-08	TENSION COIL SPRING
83	3A	* D16-0609-08	BELT
94	3A	* S64-0804-08	LEVER SWITCH
95	3A	* S64-0805-08	LEVER SWITCH
100	2B	* E30-4460-08	CONNECTOR ASSY(10P)
102	2B	* T95-0213-08	PHOTO COUPLER
103	2B	* S62-0858-08	SLIDE SWITCH
105	2B	* S74-0813-08	LEAF SWITCH
107	3A	* E30-4468-08	CONNECTOR ASSY(7P)
A	1B	* N09-4193-08	SCREW
B	1B	* N09-4194-08	SCREW
C	1A	* N09-4195-08	SCREW
D	1B	* N09-4196-08	SCREW
E	2A	* N09-4197-08	SCREW
F	1B	* N09-4198-08	SCREW
G	1A	* N09-4199-08	SCREW
H	2B	* N09-4200-08	SCREW
HD1	1B	* T31-0220-08	PLAYBACK HEAD
J	3B	* N09-4201-08	SCREW
K	2A	* N19-2086-08	FLAT WASHER
L	3A	* N19-2087-08	FLAT WASHER
M	3A	* N19-2088-08	FLAT WASHER
M1	1A	* T42-0759-08	MAIN MOTOR
M2	1B	* T42-0755-08	MOTOR ASSY
N	1B	* N19-2089-08	FLAT WASHER
P	3A	* N19-2090-08	FLAT WASHER
Q	2A	* N19-2091-08	FLAT WASHER
R	1A	* N19-2092-08	FLAT WASHER
S	2B	* N29-0510-08	RETAINING RING
T	3A	* N29-0511-08	RETAINING RING

E: Europe K: North America M: Other Areas W: Without Europe

⚠ indicates safety critical components.

KRC-658R

SPECIFICATIONS

FM tuner section

Frequency range (50kHz Space) ... 87.5MHz~108.0MHz
Usable sensitivity (S/N = 26dB) 0.7 μ V/75 Ω
Quieting Sensitivity (S/N = 46dB) 1.6 μ V/75 Ω
Frequency response (\pm 3.0dB) 30Hz~15kHz
Signal to Noise ratio (MONO) 68dB
Selectivity (DIN) \geq 80dB (\pm 400kHz)
Stereo separation (1kHz) 35dB

MW tuner section

Frequency range (9kHz Space) 531kHz~1611kHz
Usable sensitivity (S/N=20dB) 30 μ V

LW tuner section

Frequency range 153kHz~281kHz
Usable sensitivity (S/N=20dB) 45 μ V

Cassette player section

Tape speed 4.76cm/sec.
Wow & Flutter (WRMS) 0.08%
Frequency response (\pm 3dB)
120 μ s 30Hz~16kHz
70 μ s 30Hz~18kHz
Separation (1kHz) 40dB
Signal to Noise ratio
Dolby NR OFF 57dB
Dolby B NR ON 63dB

Audio section

Maximum output power 35W x 4
Output power (DIN 45324, +B=14.4V) 25W x 4
Tone action
Bass 100Hz \pm 10dB
Treble 10kHz \pm 10dB
Preout level/load 1800mV/10k Ω
Preout Impedance \leq 600 Ω

General

Operating voltage 14.4V (11~16V allowable)
Current consumption 10A at Rated power
Installation size (W x H x D) 182 x 53 x 154 mm
Weight 1.5kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150, Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama, Republic de Panama

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower one, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN LTD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19-1 46300 Petaling Jaya selangor Darul Ehsan Malaysia